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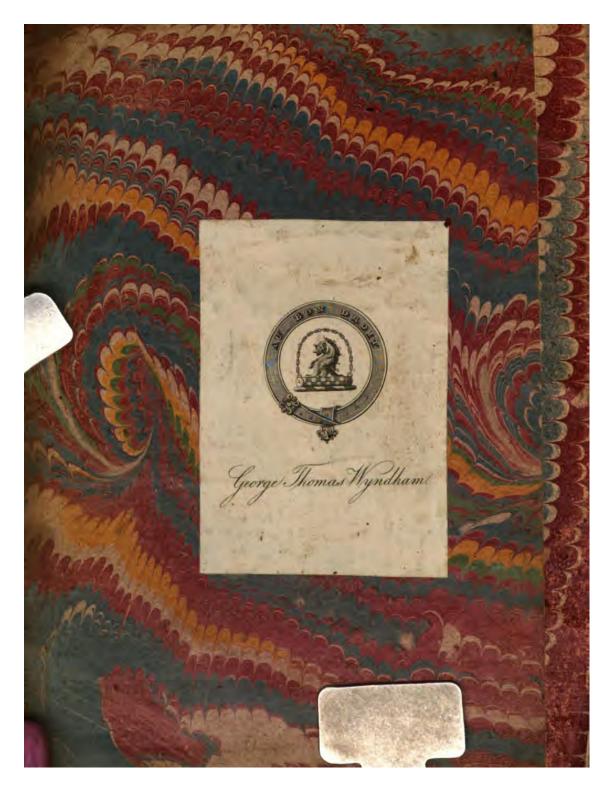
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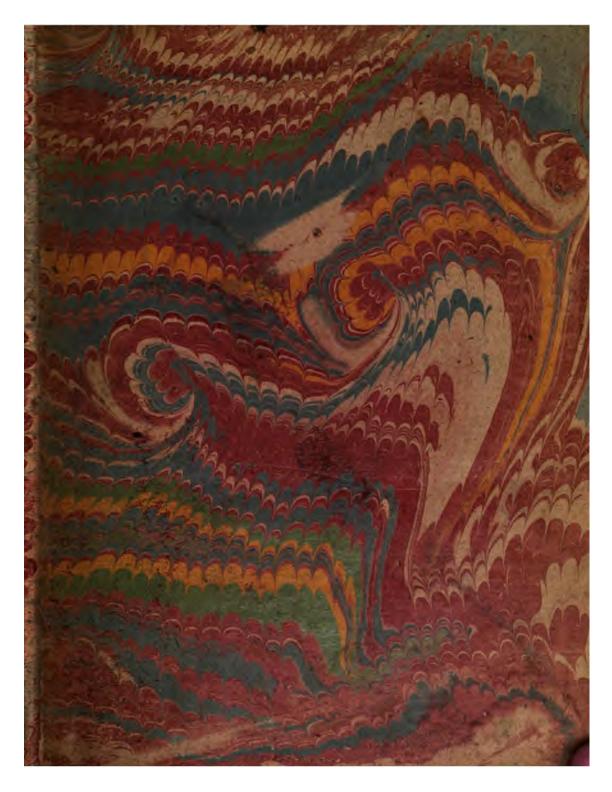
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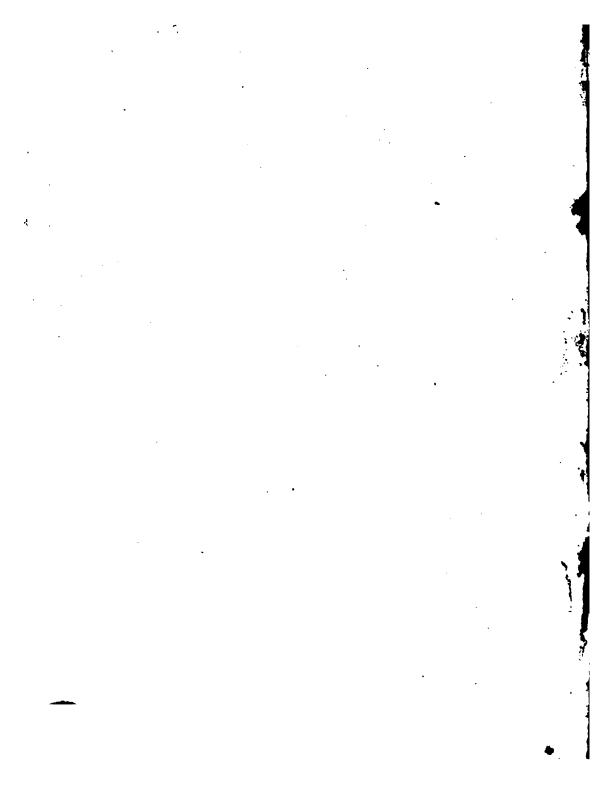




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George Wrighte Esquire, Humbly Present.



# Merchant's Magazine:

# Trades Man's Treasury.

CONTAINING.

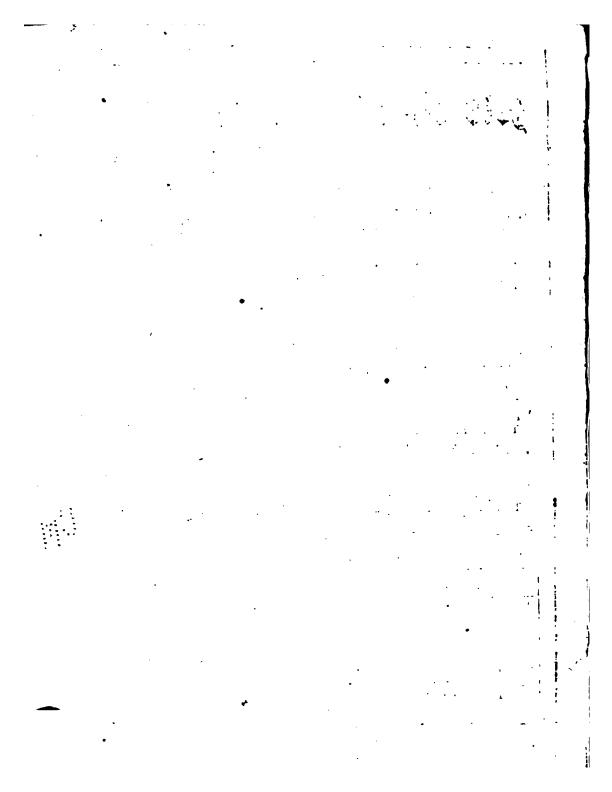
- I. Arithmetick in Whole Numbers and Fractions, Vulgar and Decimal; with the Reason and Demonstration of each Rule; Adorn'd with curious Copper-cuts of the chief Tables and Titles.
- II. Sperchants Accompts, or a most concise Way of Casting up the Value of Merchandize, Tare and Trett, Interest of Coin, Rule of Barter, Loss and Gain, Fellowship, Equation of Payments, and several Matters relating to Exchange, never before made Publick.
- III. Book: Reeping, after a Plain, Easie and Natural Method, shewing how to Enter, Post, Close and Ballance an Accompt, &c.
- IV. Parims concerning Bills of Exchange, Factors and Factorage:
  The Law concerning Brokers, &c.
- V. The Post of Letters to and from Foreign Countries; and the Days when Mails are fent to, and due from those Countries.
- VI. An Account of the Commodities produced by all Countries:
  Their chief Towns of Trade, and bigness of the Country compared with England
- VII. A Merchant or Trader's Dictionary, Explaining the most difficult Terms used in Trade.
- VIII. Precedents of Merchants Writings 3 as, Bills of Lading, Invoyces, Bills of Exchange, Letters of Credit, Charter-Parties, &c. With many other Things not Extant before, as by the Table of Contents appears.
- Accommodated chiefly to the Practice of Merchants and Tradesmen:
  But is likewise useful for Schools, Bankers, Diversion of Gentlemen, Business
  of Mechanicks, and Officers of the Queen's Custom and Excise.

#### The Sirth Impsellion Corrected and Improved.

By E. HATTON, Philomathemat.

Arbere dejecta quivis ligna colligit. Juven.

LONDON, Printed by J. H. for Chr. Coningsby, at the Ink-bottle, overagainst Cliffords-Inn-Gate in Fetter-lane, Fleetstreet; and Dan. Midwinter, at the Three Crowns in St. Paul's Church-Yard. MDCCXII.



DT Numbers powerful, and barmonious Aid, D This fately Fabrick of the World was made. The mighty Piet was no sooner said, But tuneful Numbers readily obey'd, And the rude Chaos, Form and Beauty had. Since, to Mankind fubservient they become, And (uffer not that his wild Fancy roam, And when it erring frays, conduct it home. By a long Series found of mighty use. Humane Affairs, to method to reduce. By thefe, ( after long Hazard, Tail and Paint, Th' adventrous Merchant counts bis Loss or Gains, What is his Charge, and what that Charge maintains. By these, each Art, and Science, is made known, And their dark Myfteries reveal'd and shewn. By these, we Wars and Steges undertake. Great Conquests gain, and brave Defences make. By these we sadly connet for a past Life. Made up of Labour, Sorrow, Care and Strife. By these, we compess Earth, and Seas about, By thefe, all's done, and nothing done without. Yes, we were in Traditions dull track got, And this Age copy d what a former errote. And talk'd thereof as Parrets da by rate. But you, to show your Pity, and your, Love, Reason and Practice make together move, And a dull Age, as twere by Force improve. Whilft others, poorly coast along the Shoar, By Reason's Compass, you have ventur'd o're, And taught as foreign Truths anknown before. Go on, but know, great Danger you must run, Of Rocks call'd Criticks, you may split upon; I'll but this short Description of 'em mention. They all things Damu for want of Apprehension. But ( for their Int'rest ) let the Wise be kind, By this they'll judge what still remains behind In the Rich Treasury of your Wealthy Mind.

#### To my very Ingenious Friend, the Author of the following Treatife.

UR Touth Arithmetick like Tricks are taught, Which Monkeys are to do by Practice brought, And hardly the Foundation better know. Or reason of their working Numbers so: But mimick just as they see others do. Tis you my Friend, alone, bave took away This Cloud of Ignorance, by the bright Ray Of Reason's Light, we now can walk and see. Our practis'd Rules do with our Sense agree; Safely we now on the Foundation tread. And you through all the knotty Labyrinth lead. Tou open to the World so clear a way. They hardly if they would, could go astray. But pardon me, I leffen by my praife Tour approv'd worth which I attempt to raise: And these sew Lines do only tell the Town What was to every Man before well known: Accept then what as Praise I would intend. And if I injure you while I commend, Oh! take it as the fondue[s of your Friend.]

C. J.

## The Booksellers to the READER.

Ince every one is not a competent Judge of the Intrinsick worth of Books, so as to distinguish between those of the same Subject whether well or ill done, and since all those that apply themselves to the Study of Arithmetick, or any other Art or My? stery, would certainly make choice of such Tracts for their Instruction as are most likely to accomplish them in a short time: But most being not capable of chusing for themselves, as unacquainted with the true Character of Books on that Subject, we thought it might not be improper to let 'em know the Excellency of the following Freatise, not only from the Acceptation it hath sound in the World (upwards of 6000 having been printed in 5 former Editions) but also from the following Account given of it by the Authors of the Works of the LEARNED: for the Month of February, 1695.

It's needles for us to insift on the Usefulness of the Work, or spend many Words to give you an Idea of it, the Ingenious Author baving already performed that in his Title Page: Only this we shall wenture to say, that though it be with many Books, as it is with Persons who have a plump Countenance and a consumptive Body, the diligent Perufer will not find this Book to be fuch; but on the contrary, that the Author dock faithfully perform what he Title promifes, and that in the most rational plain, and compendions Manner, of any that we have hitherto feen upon the Subject: Nor can we forbear giving this Judgment of the Work, That it deserves Encouragement from the Publish, as being sakulated for the Improvement of Trade and Commerce. to which our English Nation is so much indebted for their Fame and Grandeur, and that great Figure which they make in the World. And feeing the general Current of Education among ft the midling Sort of People, and not a few of the Gentry, does in our Days run towards. Trade and Merchandize; we cannot but conscive that this Book; if once known, will meet with a general Acceptation by all Men of Buffnels; who the they may, perhaps, think they don't fland much in need of it themselves, yet must certainly be convinced of its Diefulness, on many Occasions, to Men of the greatest Experience, and that it is absolutely needful for their Children and Servants, if they design to employ them in Trade or Commerce, or have occasion to Travel. much

#### The Booksellers to the READER.

much Lebour it may some to School-masters, and Toil and Vexation to Scholars, those who are conversant in such Affairs, will be better able to judge then we are so express.

Bince which first Impression, 14 or 15 Sheets having been added in the Second, besides some material Additions and Alterations in the Third, and Improvements in these others, we doubt not but upon perusal every unbyasted Reader will find the Character to be no more than the genuine Merits of this Book.

#### ADVERTISEMENT.

Omes Compreti, or the Trader's Companion. Containing, 1. An exact and nseful Table, shewing the Value of any Quantity of any Commodity ready east up, more adapted to Merchants Use than any other extant; which is demonstrated by 14 Examples, relating chiefly to Buying and Selling. 2. A Table calculated for universal Use, which Use is shewn in the Solution of Questions, in Multiplication, Division, Reduction, Merchandizing, and Measuring all kind of Superficies's and Solids, or Gauging Vessels and Casks. 3. The manner of cafting up Dimensions in general, whether the same be taken in Inches, Feet and fuches, Yards, Perches, &c. and how to give the Answer by Reduction, Duodecimels or Decimals, 4 The feveral Cuffoms used by Surveyers and Meafurers in measuring Glass, Wainscoar, dre. and the common Rase of such Work by the Rod, Foot, Yard, &c. 5. Instructions for entring Goods at the Custome house, Ge. with several material Clauses in the Statutes relating to Exportation and Importation. 6. Concerning Water fide Business, and the Constitution of the Keys, Wharfs, Porters, &c. there: Also the Charge of Wharfage, Lighterage, and Porterage for Landing, Londing, Weighing, and Houting Goods, and what is usually paid for the Use of Ware-houses at the Water-side, 7. Rules concerning Freight, Bills of Lading, Primage, and how the same is paid for, & a. 3; Rules concerning Infuring Ships, Merchandize, Houfes, &c. with many other things never before made publick. To which is added, A Supplement conceruing Simple and Compound Interest, eye, Also to make up Accounts of Mortgages, where the Mortgagee has received the Rent, dye. By Edw. Hatton. Philomath.

Printed for Chr. Coningshy in Fetter-Lave, J. Niebolson in Little-Britain, and Dan. Midwinter in St. Paul's Church Yard.

Written also by the fame Author: An Index to Interest, containing the largest (by many thousand Numbers) and most easie Tables of simple laterest that have been yet published, shewing the same at once for any Number of Days in the Year, and thence to 20 Years, at all usual Rates per Cent. Also Tables of Discount; present Worth of Annuities and Reversions, and of the Value of Church or College-Leases, all done in plain vulgar Numbers; also how to value one, two and three Lives, with a new invented Circle of Time, 1992, useful for Gentlemen, Merchanes, 19. Sold by the said Che. Conings by and D. Midwinter.

### The PREFACE

TO THE

# READER.

HE First Impression of this Treatise (though not so perfect in every respect as I could have wished, as being Composed, Printed and Published with too much Precipitation) having however, for its Usefulness and Facmiliarity, found Acceptation in the World, exceeding men Expectazion: I thought my self obliged, in point of Gratitude, to endeayour in the Second, not only to rectific and compleat what was amis or impersect in the Former, but also to study how (according to my utmost Ability ) I might make it a Book farther weeful to the Publick: And in order thereto, I made many considerable Additions; as, in Arithmetick in Whole Numbers, I added a Table of the Latin or Literal Numbers; several Tables in Addition, and a Discourse of the Use of those Tables: In Division a new Demonfiration; and the Manner of reducing any Summ of Foreign Coin into English, for the ready casting-up Bills of Exchange. In Valgar Fractions. I added the Reason of all those mysterious Rules given for Reducing, Adding, Substracting, Multiplying and Dividing thereof: and did the like in Decimals, shewing how the Nature of them agrees with Vulgar. In Merchants Accompts, I added the Reason of the most abstrace Rules given for the brief working of Questions in Pretime; and a more case and (in many Cases) concife Method of finding the Tare of any Commodity: And in Exchange I added several ukful Tables of Coin and Weight, with the Manner of calculating the Par of Foreign Coin by the Weight and Fineness: As also, an Explanation of the Tables of the Course of Exchange, and Diversity of Proportions between Go'd and Silver, Fine or Standard. In Book-keeping, I added Examples of a Cash-Book, Books of Houshold Expences, and Charges of Merchandize.

chandize, and shewed how the Latter are posted into the Former. and thence into the Ledger: Where, as also in the Fournal. I added References to the Folio's, where every Parcel of Goods or other Matter is placed, both Debtor and Creditor in the Ledger, and likewise a better and more Natural way of keeping an Alphabet of Names. As to Maxims for drawing and accepting Bills of Exchange, I made them more copious and methodical; and added feveral concerning Factors; as may be feen in Chap , 11. And I likewife added Chap. 12. which shews what Commodities are produred by all Countries in the World, with the Names of their chief Towns of Trade, and the Magnitude of fuch Country compared with England, according to the best Ascount I could learn by Reading, Discourse, or Calculation, and shewed when Letters may be sent to. and received from those Countries: I also incerted the Law concerning Interest of Mony. And in Chap. 14. I explained all the mysterious Terms or Words I could think on, that relate to Merchandizing many of which I am fure are not to be found in any Expositor extant. And lastly, I added the greatest Variety of Merchants Presidents, in the best Method that are any where (to my Knowledge) exhibited; which will not only be useful for Practice to be transcribed upon occasion, but also will afford much Light into the Nature of that part of Trade, which they relate And in this fixth Impression I have given an Abstract of the new Statute concerning the Postage of Inland on Foreign Letters. and the Act relating to the Length and Breadth of Yorkshire-Cloth, and of the Value of Coin in America.

And thus I have given the Reader a Summary Account of the most material Additions, though there are very many (besides some sew Alterations and Additions in the Third, and these other Impressions) which I have here offitted to mention, and I hope the whole will prove not only pleasant, but prositable; especially to the Younger sort of most Prosessions, and more particularly to the Merchant, for whose Province it was chiefly calculated; well knowing, that whatever conduceth to the facile and speedy Carrying on of Trade, does also contribute to the Augmentation of the Bulk thereof. and consequently to the Riches and Grandeur of the Nation: For as the ingenious and accomplished Merchant, Sir Josab Child, says, The Greatness of this Kingdom depends on Foreign Trade; and therefore the Interest of Trade not unbecoming Persons of the highest Rank. 'Tis observable of the Dutch, that they Erest the most Noble

Noble Tombs and Statues to the Memory of their Famous Sea-Commanders; which is a certain Indication, that they are sensible of the vast Advantages, which accrues to 'em by their Shipping, and I heartily wish we in this Nation were not less apprehensive thereof, we should not see so many Eminent Persons, of competent Fortunes, squander the same away; because they know not how to employ or improve em, and that caused by their Parents look. ing on their Extract to be above the Sphere of Commerce. Indeed the ill Practices of some Traders (especially the meaner Sort of Retailers) such as Lying and Cheating are too great Causes of bringing an an Odium on that Name: But if it be considered on the other Hand, that such Immoralities are not Essential to Trade, and that there are many, and I hope the greater part, that may and do grow rich by Traffick, who make Justice their Rule, and their Word a first Obligation; then such Objections against Trades. men will feem vain and frivolous: But 'tis the Foreign Trade, or Merchandizing, that I would chiefly here perswade some of our Perions of Quality to have a due Esteem of: Other Arts or Mysteries they usually value, according to the Profoundness and Excellencies of their Nature, or elfe to the Advantages usually attending them; for both which, the Employment of a Merchant is as valuable as that of a Lawyer, Physician, or any other Profession whatfoever: For if the necessary Perfections and Qualities of a truly accomplished Merchant be considered with respect to his Natural, Moral, and acquired Parts, it will place him (in the Opinion of the Judicious) far obove Contempt.

For such a Merchant, as to his Natural parts, must have a quick Apprehension, a solid Judgment, and a sound Constitution of Body; his Apprehension to espacitate him for the understanding all that great Mystery of his Honourable Calling; his Judgment to secure him from being easily deceived and imposed on by those with whom he has Deasings, and a good Constitution and Soundness of Body, that he may do Variety of Business in different Places in a

fort Time.

His Morals must likewise be no less evident; his Fortitude such as gives him an undaunted Courage to adventure his Estate at Sea, not withstanding all Dangers; and also to correspond and discourse not only with Foreigners and Barbarians, but with Princes and Statesmen; and (in stort) to insist on his Right from all Persons in all Places whatsoever. And as his Foreignee must be great, so his Pruz

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deuce sets Bounds thereso, that it neither Degenerates into know dence nor Fool-hardinels, for 'tis by this that a just Bellance and a due Poize is kept in all his Actions; this is the Pole-fler that directs him how to feer in his menty Novel and Momentel Concerns; by this he first fixes on the most probable and fecure way of enriching himself, and then profecutes his Defigns by the most proper Methods: This teaches him how to manage all his Demeffick Concerns according to the various Mutations of things abroad a and 'tis his Prudence, whereby his Importations, Exportations, Buying, Selling, Exchanging by Bills, Bartering, Accompts, and all his Dealings are so ordered and carried on, as tend not only to his own, but the Interest of Trade in general. And as his Pradence makes him act wifely, so his Justice makes him act honestly: This restrains him from affirming a Commodity to be good, when 'tis bad; or Weight and Measure when deficient; or if he does so through Ignorance of such Defects, he scruples not to make a proportionable Abarement. This also makes him punctual to his Word in all his Affairs, which procuses and encreaseth his Credit; his Credit augmenteth the Bulk of Trade, and that Riches; and as an ingenious Authour has it, The Merit of the Merchant is above all other Subjects; for while he is uncouched in his Credit, his Hand. writing is a portable Coin for the Service of his Follow-Citizen, and his Word the Gold of Ophyr to the Country where he resides. This Merchant is not only accounted an honest Man by his Neighbours (which is sufficient for others) for his Character is well-known in Foreign Parts, as his Name or the Commodities he deals in: and by acquiring the Epithete of a Full Man, he can carry on as great a Trade as he that wants that, can do with treble his Stock. And if we consider his Temperance, Gravity, and Assability, they are such as improve his spacious Capacity and Intellects; the first makes him able to perform the most intricate part of his Business at any time, whenever it occurs, the second makes him suited to, and become his high and honourable Employment; and the third of an easie Access, gains him Love and Affection, and makes all that knows him delight to deal with him.

And as this Merchant is thus qualified with respect to his Natural Parts and Morals, so his Acquired Parts are such as fit him for the Practice of that great and copious Undertaking, to perform it with Ease and Seciefaction, and makes him a sit Correspondent or Companion for the most Noble or Judicious. To inflance in some

some of the trecestry Accomplishments which properly denominate him a Merchant; 'Ale understands not only the Language, and Customs (with respect to Trade) of the Place where he resides, but also those of such Parts of the World where he has any considerable Traffick: He writes a fair and legible Hand, and the mutter in a good Style, for fatisfaction not only of Foreigners, who may not well understand his Dialect, but of Judges and Magistraces (in Case of Contest) who may be unacquainted with the Myteries of Merchandrile Concerns: He is likewise well versed in Accounts, whereby he can do his Business the shortest and surest Way. And in Book keeping, by Debtor and Creditor, which in: forms him with Esse and Certainty how Matters stand at any time wish respect to Men, Money or Merchandize, and to Profit and Loss. whether he goes forward or backward, grows Rich or Poor: He is likewife a good Proficient in Mathematical Learning, as if Gedmetry, by which he knows how to measure Board or Timber, or other Thing, relating to his Frade; as gauging Wine and Oyl Velicle, &t. In Navigation, whereby he knows the Distance and Rombs leading to the most noted Ports or Places of Trade which are of use to him in Discourse and Agreements with Masters of Ships, e.v. In Geography, thereby to know the Situation of the most remarkable Places of Traffick, what Commodities they produce, and also the Customs, Subsidies and Impositions paid upon Exportation or Importation, the Manner of Buying and Selling, with the Value of their Coins, Weights and Measures. Add to all this the clear Notions he has of the great Mysteries of Exchange; the Reason of its Rising and Falling, the Laws and Cufroms used in Drawing, Accepting, Endorsing, and Protesting Bills of Exchange, and the Quantity made up for Sale, Quality and Use of the most material and best Commodicies, together with the Political part of Trade, as the Interest of all Countries, with respect, to all Commodities, i. ex which are most proper for, or are to be prohibited Exportation or Importathen in this or that Couper of and many other tiffigs f willch should I particularize it would swell this Epissie beyond due proportion to the subsequent Treatise; all which a compleat Merchant must necessarily be acquainted with, in order to the qualifying him for the judicious Performance of his own Business, and that of his Country in a Court of Merchants. So that we may well conclude with the fore-cited ingenious Author, That of this [a 2] Study.

Study, as well as others, it may be said. There is Infinity in it, none, though of the largest Intellects and Experience, being able to fathom

its utmost Depth.

The Book keeping Part, I purposely abreviated to prevent discouraging the Reader in his first Attempts to acquire the Knowledge thereof, being very well affured many younger Learners have been confounded by the Multiplicity of Rules and Examples; for the feveral Entries in the Wafte-Book, Journal and Ledger and Ballaucing. being numerous and prolix makes it next to impossible they should have a just Idea of the Tendency thereof, I have therefore for the take of such made the Examples few, and the Rules for Posting and Ballancing plain and easie to be apprehended; and for those who have acquired more Knowledge in this Art, I have given such Variety of Cases and Rules as may be a help to their Memory, as well as a Guide to those who are not so good Proficients; and had time permitted, I should have publish'd a Treatise by it self of Rules and Examples of the most mysterious Parts of Book-keeping. L must assure the Reader, that I have proceeded in composing the following Pages, in the most Familiar, Rational and Copious Method I could think proper in this Treatife, and have endeavoured, throughout the whole, to prevent Errour, and to explain those things most clearly, which others have either but transiently touched, or wholly omitted.

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An Advertisement concerning the Contents or Index to this BOOK.

Het Chapter 14 (which is the Dictionary) is not included in the Index
above; for the Words in that Chapter sunning in Alphabetical Order are
Indexes to themselves, and may sooner be found there than elsewhere. But
if the Reader look for a Word there, and cannot find it, let him look in the
Index, and if it is in the Book, he will not there miss of it.

Example 2: Let it be required to find the Nett-weight of the 12 Hundred, 2 Quarters, 26 Pound of Currents mornioned in Cafe 2: foregoing.

In order to perform which, I look in the Decimal Table, what part of 1 Hundred, 2 Quarters and 27 Pound is, and find it .733; and having decilified the 16 Pound Tare from 112, the Remainer is 96; wherefore: Landingly 100733 by 26, and the Product is Nett-pounds.

1036.368 Nett-pounds which is equal to the pounds contained in the 9 Hundred, on Quarters, 23 Pound the Nett-weight of the Currents in the faid 8th Cafe.

Case 9.] When the Hundred-weight is 5 Score, how to deduct the Ture 20 5 1. per Cent.

Rale 3 Take ... of the given Number, and you have the Tare required.

Example 3. ] What is the Tare of 5 Baggs of Cotton-Yain from Aleppo, Weight 2099 Pound at 51. per Cent.

of top9 Groß.

c is 54 for Tare.

1045 Nett.

By the various Examples in the Cases foregoing, you may easily know how to make allowance for Tare at any rate per Cent, but in many Commodities the allowance for Tare is not nockoused ger Cent. But so much of the Gross, called invoice Tare, thus.

[Q]

Caje 10.]

[[22]

Case to I When the Pare of Raw-filk from Sugrus or Coorus is to be deducted The constant time of the constant time.

Rule. Is (by the Book of Rates) to allow, re pound Tarefor 3 Hundred-weight and upward; from 3 Hundred-weight, down to 200 Weight 14 pound Tare; and from 200 Weight downwards. is allowed 12 pound Tare.

Example 1. ] . What is the Tare of 4 Bails of Raw-filk, Weight

- 1088 pound (Averdupoize?) Answer 58 pound. 1

. **lb.** N° 1 2. 346, Tare 16 300, Tare 16-3 284, Tare 143 Tare sa

Total Groß 1088 Tare 48 ...

the specific of the second of

Remains 1b. 1030 Nett.

Example 2. Likewise in Virginia Tobacco, all Hogheads under three Hundred-weight, allow 70 pound Tase, from 3 Hundsted to 4 Hundred 80 pound, from 4 Hundred to 5 Hundred 90 pound. and from 5 Hundred-weight upward 100 pound Tare:

So in the 6 Hogsheads following, Weight 27 Hundred, 1 Quarter, the Tare is 4 Hundred, 3 Quarters, 8 Pound, . . . . . .

> C. Q. 16. 5 2:3: 4, Tare 0:2:14 Tare o : 2 : 24 2:1:12, 4: 2:00, Tare 0: 3:06 5: 1:12, Tare 0: 3:16 Tare 0: 3: 06 Tare 0 : 3 : 16 ¶ : 2 : 08, Tare 0 : 2 : 16 5: 3: 20,

Total Gross 27: 1:00, Tare 4:3:08 Total Tare 4:3:08, Deduct

Refleth Nett 22 17 20.





#### CHAP. I.

#### Notation and Numeration of Whole Numbers.

N Order to the Right understanding how any Number is to be read or written, there are these Four Things to be considered:

- 1. The Characters by which all Numbers are expressed.
- 2. The Species or Kinds of Number.
- 2. The Order or Place: And,
- 4. The Multitude or Value fignified by any Number.

First, The Characters by which all Numbers (how great foever) are expressed in Writing, are these Ten: Viz.

2, 2, 3, 4, 5, 6, 7, 8, 9, and (o) Cypher:

Secondly, The Species of Kinds of Numbers are Three: Viz.

First, Digits.
Second, Articles.
Third, Mixt Numbers.

2. A Digit is any of the Nine fore-mentioned Figures fingly expressed: Viz. 1, 2, 3, 4, 5, 6, 7, 8, 9; which possess but One Degree or Place.

2. An Article is any of the Nine Digits, with a Cypher or Cyphers, placed to the Right hand. As, 10, 100, 200, 5000, 6000, 600.

Digits promiseuously placed together: As, 12, 24, 96, 112, 120. 1769, &c.

Thirdly, The Order of the Places of Numbers is reckoned from the Right hand, toward the Left; as in the Table foregoing: Toward the Left-hand, 1 is in the First Place, 2 in the Second, 3 in the

the Third, &c. But the Order of Reading Numbers is from the Left-hand, toward the Right, as shall be shewed by and by.

The Denomination of the Places are reckoned as followeth, and

as in the foregoing Table.

The Denomination of the Places.

			The Denomination of the Places.
-	-	0	Units,
	4	00	Tens.
	64	7	Hundreds.
	4	9	Thousands.
	~	~	X Thousands.
	9	4	C Thousands.
١	-	~	Millions.
	∞	4	X Millions.
اخ	0	-	C Millions.
틸	0	9	Thou,ands of Millions.
CIDEL OF FIRES	12/12/11/10		X of Thousands of Millions.
	-2	4	C Thousands of Millions.
31	7	~	Millions of Millions, (or Billions.)
ادِ	0/19/18/17/16/17/14	9	X Millions of Millions, (or X of Billions.)
	2		C Millions of Millions, (or C of Billions)
ı	91	00	Thous of Mill. of Millions, (or M. of Billions.)
1	17	0	X Thous. of Mill of Millions, (or of Billions.)
ı	20	00	C Thous. of Mill. of Millions, (or of Billions.)
ı	61		Mill. of Mill. of Millions, (or Trillions)
١	20	9	X Mill. of Mill. of Millions, (or X of Trillions.)
	2112	1.11	G Mill. of Mill. of Millions, (or C of Trillions.)
	7		Thouf. of Mill. of Millions, (or Thous. of Trillions) &c.
•	_		

Fourthly, Having premised this, it will be asie to read any Number, observing only these two things: Viz.

- 1. The Place any Digit possessit.
- 2. The Value of that Digit.

First, By the preceding Table it is plain, That the First place toward

toward the Right-hand, is the place of Units; the Second, the

place of Tens, the Third, the place of Hundreds, &c.

Second, Therefore suppose the Digit 9, stands in the Units place, the Value of it is 9; that is, 9 Units: if it stands in the Second place, 'tis 9 Tens, that is Ninety; if in the Third, or Hundreds place, 'tis 9 Hundred, &c. So we will-suppose that the Digit 7 stands in the Fisteenth place, which (by the foregoing Table) is Hundreds of Millions of Millions; (or Hudreds of Billions) and the Value of that Digit, possessing that place, being (7:) Admitting therefore that all the places toward the Right-hand of the said (7) were supplied by Cyphers, the Value of the Number would be Seven Hundred Millions of Millions: And, in like manner, the 22 Figures in the foregoing Table may be thus read:

Four Thousand Five Hundred Sixty Seven Trillions, Eight hundred ninety eight thousand 7 hundred sixty sive Billions, Four hundred thirty two thousand One hundred and 23 Millions, Four hundred sifty six thousand seven hundred eighty nine.

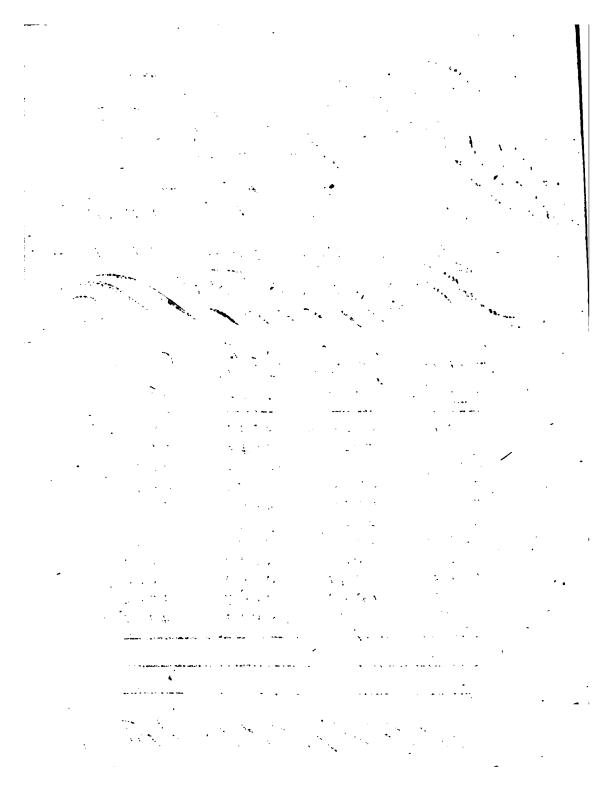
5 A 14

# Numeration of Whole Numbers.

# The Value of the Latin, or Literal Numbers, are as follows.

1	. 1	XI	111	CC	200
· 11	2	XX	20	CCC	300
iii	3	XXX	30	CCCC	400
IIII or IV	4	XL	40	<b>D</b>	500
V	71	L	ço l	<b>DC</b>	600
VΙ	6	LX	60	DCC	700
Ϋ́ıı̈́	7	LXX	70	DCCC	800
VIH	Ŕ	LXXX	80	DCCCC or CM	900
IX	9	XC	90	M	1000
X	10	1 "c	100	MDCCXII	1712

CHAP.



Total

Proof

#### CHAP. II.

### Addition of Whole Numbers.

A Ddition is either Simple or Compound.

First, Simple Addition is when Numbers are to be added that have but one Name or Denomination, as Pounds to Pounds, Feet to Feet, &c.

Secondly, Compound Addition is when Numbers of divers Denominations are added together; as, Pounds, Ounces, and Drams, to Pounds, Ounces, &c. in both which Cases, these two Rules are to be considered.

The First is for the right placing the Numbers to be added.

The Second is for the adding together those Numbers after they are so placed.

#### 1. The Rule for placing the Numbers that are to be added.

Observe to write the Units place of all your lower Numbers, under the like place of the Number above; Tens place under Tens, Hundreds under Hundreds, &c. (as in the Example foregoing, and those that follow:) And if the Numbers to be added are of divers Denominations, you are to place all the lower Numbers under those of the same Denomination above; as if you add 171, to 21, 71, you must place the Numbers thus:

1. s. 2 : 07

2. The Rule for adding Numbers of one Name together, (let the Denomination be what it will,) is:

Summ up every Sories or lineal Row of Figures, beginning at the understood Figure towards the Right-hand, and place the Digit above Ten or Tens in that first Rank under the Line as followeth, and carry the said Ten or Tens to the next Rank toward the Lest-hand, calling

ling them so many Units, (for they are no more of that next Rank) and add all the rest of the Ranks as you have done the First: But if there is nothing above even Tens, when you have added any Rank together, then place a Cypher under that Rank, proceeding to carry the Tens, as is before directed: As in the following Example.

Admit I	have owing	to me for	Holland Cloth 37 Thread 8 Cambrick 62 Latten-Wyre 37 Sugar 22 Nutmegs 39	85 45 92
			- Contract	_

Total-20170

To know what Summ I am Creditor by, or what is owing me in all, I summ up the Particulars, beginning with 8 at the Angle, towards the Right-hand of the lowermost Line, as was before directed; saying, 8 and 2 is 10, and 5 is 15, and 5 is 20, and 6 is 26, and 4 is 30: put a Cypher under the Line, and carry 3 to the next Rank, toward the Lest-hand; saying, 3 and 5 is 8, and 9 is 17, and 4 is 21, and 8 is 29, and 9 is 38, and 9 is 47; put the 7 under the Line, and carry 4 to the next Rank; saying, 4 and 3 is 7, and 7 is 14, and 2 is 16, and 8 is 24, and 7 is 31: put the 1 under the Line, and carry the 3 to the next Rank; saying, 3 and 3 is 6, and 2 is 8, and 3 is 11, and 6 is 17, and 3 is 20: which put all down, beccause you have no more Ranks; so will you find the Total to be 20170!. And after the like manner are any other Numbers of one Denomination added.

# 6. 2. For adding Numbers of divers Denominations together, observe thu Rule:

Having the Numbers placed, as is before directed, and as in the Example following; Confider how many Units, of the least Denomination in the Numbers given to be added, make a Unit of the next superior Denomination, and how many Units soever you sind of the next greater Denomination contained in the whole Rank, or Series, of the next lesser Denomination, so many must you carry to the said Rank of greater Denomination: And if any thing remains

OVCE





### Addition of Whole Numbers:

over and above a Unit or Units of the next higher Denomination, such Overplus is to be placed under the Line.

To instance in the foregoing Example of Pounds, Shillings and Pence, toward she Lest-hand: Where note, by the way. Than

is one Farthing, or a Quarter of any thing.
is one Half-penny, or two Quarters of any thing.
is three Farthings, or three Quarters of any thing.

So in the Example aforesaid, 3 farthings and 1 is 4, and 2 is 6; and 2 is 9, and 1 is 10, and 2 is 12 farthings of 2 pence: which carry to the pence; saying, 3 pence and 10 pence is 18 pence, and 2 is 15, and 3 is 18, and 4 is 22, and 5 is 27, and 6 is 22, and 7 is 40, and 9 is 49, and 11 is 60, and 10 is 70, and 8 is 78 pence; that is. 6s. 6d. (as you may see by the Table of pence on Page 3 of this Chapter:) Put the 6d. under the Line, and carry the 64 to the shillings; saying, 6 and 3 is 9, and 4 (taking but Units place of the shillings) is 13, and 8 is 21, and 7 is 28, and 1 is 29, and 2 is 21, and 9 is 40, and 1 is 41, and 5 is 46, and 6 is 52; put the 2 shillings under the Line, and carry the s to the Tens place of shillings ; faying, s and 8 (Ten shillings) is 13: put the odd Ten shillings under the Line, and carry 12 Ten shillings to the pounds, calling them 6 pounds (by taking half of them,) faying, 6 and 8 is 14, and so forward as in the last Example of one Denomination; so von will find the Summ to be 6223 L 121. 6.d. By the same Rule and Method you may find the Total of any other Number of Pounds, Shillings, and Pence: But,

Note, That because in Quarters of Hundreds, Ounces, &c. the difficulty of proceeding in that Method would be great; therefore your best way will be when you add Ounces in Averdupoize-weight, &c. to make a point or prick at every 16; so will you avoid charging the Memory, and may with ease carry the said points or pricks to the pounds; each point being I pound: A sew Examples will make the pounds; which you have after the Tobles.

it plain, which you have after the Tables.

# L. The Table of English Coin for Addition and Substraction.

4	Farthings is-1	Penny.	1 6
	Pence		10
6	Penee	Teffer	1 13
2	Pence — I	Shilling	20
	CLilling	$\sim$	1 .

6 Shill. 8 pence—1 Noble
10 Shillings——1 Angel
13 Shill. 4 pence—1 Mark
20 Shillings——1 Pound

### I. The Table of English Coin for Reduction.

In-I Pound are 1 Mark and 2 Angels 2 Angels 3 Nobles 4 Crowns 20 Shillings 40 Teffers 60 Groats 240 Pence 960 Farthings	2 Nobles 2 Crowns & 3 17 Shill. & 3 26 Teffers & 3 40 Groats 160 Pence 640 Farthings	20 Teffers 30 Groats 120 Pence 480 Farthings
In—1 Noble are r Crown & 3 6 Shillings 3 13 Tefters & 3 20 Groats 80 Pence 320 Farthings In—1 Tefter are 1 Groat & 3 6 Pence 24 Farthings	In—1 Crown are 5 Shillings 10 Testers 15 Groats 60 Pence 240 Farthings  In—1 Groat are 4 Pence 16 Farthings	In—1 Shilling are 2 Tefters 2 Groats 12 Pence 48 Farthings  And in-1 Penny are 4 Farthings

II. The Table of Ti	roy-weight to be used Substraction.	l in Addition and
32 Natural grains of ' 24 Artificial grains is 20 Penny-weight is - 12 Ounces is	Wheat is 24 Artificial Penny. Ounce m 1 Pound m	grains markedgrs. eight markeddw. narked 3 narked 15
II. The Table to be	used in Reduction.	
In 1 Pound are 12 Ounces 240 Penny-wt. 5760 Grains Artif. 7680 - Natural grs.	In 1 Ounce are 20 Penny-wt. 480 Grains	In r Penny-wt. are 24 Grains
III. The Table of A	lverdupois-weight nf Substraction.	d in Addition and
16 Drams——1	28 Pound   28 Pound   28 Pound   20 Pound   4 Quar   20 Pound   20 Pound	Hundred = qr. rters = I Hundr.—C.
III. The Table to	be used in Reduction	
In 1 Tun are 20 Hundred 2240 Pounds 25840 Ounces 573440 Drams	In 1 Hundred are 112 Pounds 1792 Ounces 28672 Drams	In 1 Pound are 16 Ounces 256 Drams &

IV. The Table of Apothecaries Weight to be used in Ad- dition and Substraction.				
20 Grains —— 1 Scruple, mark'd —— 3 3 Scruples —— 1 Dram —— 5 8 Drams —— 1 Ounce —— 5 12 Ounces —— 1 Pound —— 16  IV. The Table to be used in Reduction.				
In—1 Pound are 12 Ounces are 8 Drams are 2 Scruples  288 Scruples 480 Grains In 1 Scruple 20  5760 Grains Grains Grains				

V. The Table of Sheeps-Wool Weight to be used in Additi- on and Substraction.				
, 2 Weys-		1 Sack		
V. The Table to be used in Reduction.				
In-1 Laft are 12 Sacks 24 Weys 156 Tod	In I Sack are 2 Weys 13 Tod 26 Stone	In-1 Wey are 61 Tod 13 Scone 26 Cloves		
312 Stone 624 Clove 4368 Pounds	52 Claves 364 Pounds	182 Pounds		

are 2 Cloves 14 Pound	l are / round
	<u> </u>
Wine-Measure to be and Substraction.	nsed in Addition
Fallons, is	Tierce Hogs-head
*	**************************************
In-1 Pipe ere 2 Hogs-heads g Tierce 126 Gallon	In-1 Hogs-head are 11 Tierce 63 Gallons
e 1 In—	Gallon e 4 Quarts
	be used in Reduction In-1 Pipe are 2 Hogs-heads 5 Tierce 1 26 Gallon 504 Quarts

VII. The Table of Beer Measure to be u	sed in Addition
2 Pints 2 Quarts 2 Potties, or 282 folid Inches, is — I 9 Gallons 1 Firkins 2 Kilderkins — I	Gallon Firkin Kilderkin

In-1 Barrel are 2 Kilderkins 4 Firkins 36 Gallons 72 Postles 144 Quarts 288 Pints	In1 Kilderkin are 2 Firkins 18 Gallons 36 Pottles 72 Quarts 144 Pints	In1 Firkin are 9 Gallons 18 Pottles 36 Quarts 72 Pints
In-1 Gallon are 2 Pottles 4 Quarts 8 Pints 282 Solid Inch.	In-1 Pottle are 2 Quarts 4 Pints 141 Solid Inch.	In -1 Quart are 2 Pints 70½ Solid Inch. 35¼ Inches in 1 Pint

2 Pints ————————————————————————————————————		- 1 Quart - 1 Pottle - 1 Gallon
8 Gallons 2 Firkins 2 Kilderkins		I Firkin of Ale Herring or Soa I Kilderkin' I Barrel
VIH. The Table to	be used in Reducti	0 <b>%</b> .
In-1 Barrel are 2 Kilderkins 4 Firkins 32 Gallons 64 Pottles 128 Quarts 256 Pints	In-1 Kilderkin are 2 Firkins 16 Gallons 32 Pottles 64 Quarts 128 Pints	In-1 Firkin are 8 Gallons 16 Pottles 22 Quarts 64 Pints

In-1 Gallon are 2 Pottles 4 Quarts 8 Pints 282 Solid In	are 2 Q 4 Pi 141 So	uarts nts	In I Quast are 2 Pints 70! Inches In 1 Pint 35! Inc.
2 PIBES		t. Ouart	used•in Addition
2 Pottles— 2 Gallons— 4 Pecks—		I Gallon I Peck: I Bushel Cor	n-Meafure
8 Bushels— 4 Quarters—		i Bushel Was i Quarter i Chaldron	ter Meafure
IX. The Table	to be used in	7- 12-	may 10 m - may 10
In-1 Last are 2 Weys 10 Quarter 80 Bushel	are 5 Quarter 40 Bushel 160 Pecks	32 Pecks	8 Gallons
320 Peeks 640 Gallons 1280 Potrics 2560 Quarts 5120 Pints	320 Gallons 640 Pottles 1280 Quarts : 2560 Pints	128 Pottle 256 Quart \$12 Pints;	s 22 Quarts 64 Pints
In-1 Peck are 2 Gallons 4 Pottles 8 Quarts 16 Pints	In1 Gallon are 2 Pottles 4 Quarts 8 Pints	In1 Pottl are 2 Quar 4 Pints	ts are 2 Pints

	Long-Measure to be and Substraction	used in Addition
Barley-Corns- 12 Inches 2 Foot or 16 No. 45 Inches 27 Inches 2 Yards 5 Yards and 1 — 40 Perches	alls	- r' fuch - r Feot - r Yard - r Ell English - r Ell Flemish - r Fathom - r Pose or Perch - r Furlong
X. The Table to be In—1 Mile are 8 Furlongs 320. Pollor Per. 1760 Yard 5280 Feet 63260 Inches 190080 Barky- Corns	In—I Furlong are 40 Polls 220 Yards 660 Reet 7920 Inches 23760 Barley- Gorns	In-r Poll or Perch are 5½ Yards 16½ Feet 198 Inches 594 Barley Corns Length
In—1 Yard are 3 Foot 36 Inches 108 Barley- Corns	In—1 Foot are 12 Inches 46 Barley- Corns	In-1 Inch are 3 Barley-Corns Length

16 Quarter of an 144 Inches————————————————————————————————————	Ignare or Superficial Adition and Substra Inch————————————————————————————————————	of Land or Qr. of an
XI. The Table to b  In—1 Squ. Mile are 640 Squ. Acres 2560 Rods 102400 Poll 07 Perch. 3097600 Yar. 27878400 Feet 4014489600 Squ. Inches	e used in Reduction In—I Square Acre are 4 Square Rods 160 Square Perch. 4840 Yards 43560 Feet 6272640 Inches	In— 1 Square Rod are 40 Perches 1210 Yards 10890 Feet 1568160 Inches
In—1 Sq. Perch are 304 Yards 2725 Feet 39204 Inches	In—1 Sq. Yard are 9 Sq. Feet 1296 Inches	In-1 Sq. Foot are 144 Inches

XII. The T	able of Dozen to l Substructi	e ufed in Additi on.	on and
12 Dozen	or Things, is	I Small G	role role

	be used in Reduction	
In 1 Great Groß are 12 Small Groß 144 Dozen 1728 Pieces, or Things	In r Small Groß are 12 Dozen 144 Pieces, or Things	Thines `

XIII. The Table		o be nsed action.	in Add	ition and
24 Hours————————————————————————————————————	y and 6 H	Lours —	- I Hot - I Nati - I Wee - I Mot - I Solat	or oral Day k oth
AIH. The Table to In—1 Year are 52 Weeks 365 Days and 6 Hours 8766 Hours 525960 Minutes 31557600 Seconds	In-1 W are 7 D 168 H 10080 M	eek In-1 ays are 24 ours 1440	Day Hours	In-1 Hour are 60 Mi.

But, Note, That from the time the Sun leaveth 1 Tropick to the time it returns to that Tropick is computed 365 Days, 5 Hours, 42 Minutes, 4 Seconds, and 21 Thirds.

And that by the last Table above for Reduction, ...

It will be found fince the Creation \$2976407640 Minutes which is 5659 Years.

And fince the Incarnation at Lady- \$899917560

Each performed at I Operation by the said Table, as you will perceive (when you arrive at the Rule of Reduction) with many other excellent Uses of these Tables.

XIV. The

#### XIV: The Table of Motion.

69" (Seconds) maketh 1	Minute.
or 4' of Time \( \)	Degree.
20 Degrees I	Sign of the Zodlack.
3 Signs or 90°	Quadrant.
4 Quadrants or 360° — — 1	Circle of the Sphere.

#### S. 4. The Use of the Foregoing Table.

Weight, Measure, &c. 2 Sorts of Tables: The uppermost Mewing how many Units of an inferiour Denomination are contained in an Unit of the riext superiour Denomination, by which you may know how to add or substract any Numbers of those Denominations. The other Tables under the former, shew how many Units of any of the lower Denominations are contained in an Unit of a higher Denomination, which is very useful for the speedy reducing of any thing from one Denomination to another.

The first Table is of English Coin, the least Denomination of which is a Farthing, and the greatest of our real Pieces of Silver, a Crown or 5s. 4 whereof make 1 Pound or 20s. concerning which Money

you have a farther Account in Exchange of Coin.

The second Table is of Troy-Weight, by which is weighed Bread, Corn, Jewels, Gold, Silver, Amber, and Electuaries; and all Measures for Wet and Dry are taken from this-Weight. By the Statutes of 51 H. 3 Sect. 7. and 31 Edw. 1 12 H. 7. Cb 5. it was Enacted, That one Penny should contain in Weight 32 Natural Grains of Wheat taken out of the middle of the Ear, or 24 Artificial Grains, as in the Table of Troy-Weight. Vide Rastal. Weights, 7, 8.

The third Table is of Averdupoize-Weight, 16 Ounces or 1 Pound of which is equal to 14 env. 12 dw. Troy. By this Weight is weighed all manner of things that have wafte, as Physical and Grocery Drugs, Rozen, Wax, Pitch, Tarr, Tallow, Butter, Cheefe, Soap, Hemp, Flax, Flesh, Iron, Steel, Tinn, Copper, Lead, Alum, Copperas, &c., 112/. of which is the Hundred; and

in adding, for every 16 Drams carry one to the Ounces, for every 16 Ounces carry 1 to the Pounds, for every 28 in the Pounds place, carry 1 to the Qr. of Hundreds, for every 4 in the Qr. of Hundreds carry 1 to the Hundreds. Note, That 56 oun. Averd. is 51 oun. Troy very near.

The fourth Table is of Apothecaries Weights, by which they compound their Medicines, tho' they buy and fell their Drugs by the Averdupoize-Weight. In adding this Weight, for every 20 in the Grains place, carry 1 to the Scruples, for every 3 Scruples, carry 1 to the Drams, for every 8 of these Drams, carry 1 to the Ounces,

for every 12 Quinces, carry 1 to the Pounds place.

The fifth Table is the Weight by which Sheeps-wool is weighted: in adding of which Weight, you are for every 7 Pound to carry 1 to the Cloves place, for every 2 Cloves to carry 1 Stone, for every

13 Stone carry 1 to the Weys place, &c.

The fixth Table is of Wine-Measure, where, in adding, you must for every 4 Quarts, carry 1 to the Gallons, for every 63 Gallons, carry 1 to the Hogs-head's place, for every 2 Hogs-heads, carry 1 to the Pipe's place, and for every 2 Pipes, carry 1 to the Tun's. Note, That the Wine Gallon contains but 231 solid Inches by the Standard of the Exchequer, which is less than the Ale or Beer Gallon. By which Gallon of 231 Inches, all other Liquids, except Ale and Beer are measured by the 12 Ch. 2. And note, That a Pint of Wine weighing 100 of a 16. Averdupoize; the Tun (or 252 Gallon) will weigh 17 C. weight.

The feventh Table is of Beer Measure containing 282 solid Inches to the Gallon, by which Strong, Mild, and Small Beers are measured; the Denominations usually added by Excise Officers, &c. are for every 9 Gallom, carry 1 to the Firkins, for every 4 Firkins, carry 2 to the Barrels, 36 Gallons being 1 Barrel by the 12 of Cb. 2.

The Eighth Table is of Ale Measure, containing as the Beer 282 solid Inches, but the Barrel is less than the Beer Barrel, by 1128 solid Inches, or 4 Gallons: so that for every 8 Gallons, carry 1 to the Firkins, and for every 4 Firkins, carry 1 to the Barrels, 32

Gallons being 1 Barrel by 12 Ch. 2. Vid. 11, 12 W. 3.

The ninth Table is of Dry Measure, for Corn, Salt, Sea-Coal, &c. And in adding, you are for every 2 Gallons or 1 Peck to carry one to the Pecks, for every 4 Pecks carry one to the Bushels, and for every 8 Bushels carry 1 to the Quarters, which is the highest Demomination of Corn-Measure. Vid. Stat. 1. 2. A. (Sef. 2.) &c. where

where Malted Corn, &c. is to be measured by a Bushel 18 Inches and a half diameter, and 8 Inches deep; so that every luch deep upon this Gauge-point is a Gallon (or 2688 Inches) and the said Dimensions by the said Acts are to be those of a Winchester Bushel, which by consequence contains 2150.425 Inches solid.

The tenth Table is of Long-Measure, In which no notice is taken of Breadth, as of Heights, Depths, Distances, Length of Cloth, Roads, &c. and in adding this kind of Measure, you are for every 3 Foot or 4 Quarters of a Yard to carry 1 to the Yards, for every 11 half Yards carry 1 to the Perches, for every 40 Perches carry 1 to the Forlongs, at d for every 8 Furlongs carry 1 to the Miles. But note, That the 5½ Yards is a Poll or Perch, according to Statute, yet in some Countries they have 7, 7½, and 8 Yards to the Poll called customary Measure. The 160 Square Perches, each 5½ Yards is an Acre by the 24 H. 8. Ch. 8.

The eleventh Table is of Superficial Measure, which is that wherein Length and Breadth is considered, as in measuring Board, Glass, Pavements, Wainscot, Tiling, Plaistering, Flooring, &c. where for every 144 Inches, you must carry 1 Foot, for every 9 Foot 1 Yard; or in Land, for every 40 Square Perches carry 1 to the Rods, for every 4 Rods carry 1 to the Acres. And note, That the solid Foot is 12 Inches long, 12 Broad, and 12 thick, or 1728 solid Inches, wied in measuring Timber, Stone, &c.

The twelfth Table is of Dozen, useful in-adding things computed thereby, which are very numerous, of which, such wherein the great Gross is used, you have following. In adding hereof, you must for every 12 carry 1 to the Dozens places, for every 12 Dozen 1 to the small Gross, for every 12 small Gross 1 to the great Gross.

Thesthirteenth Table is of Time; of which some say, How can 365 Days and 6 Hours be sound in a Year, since to multiply 52 Weeks by 7 Days, produceth but 364 Days? But if such Querist looks into his Almanack (wherein no doubt but he believes all contain'd) he will find 52 Weeks and I Day in a Year, and every sourth Year, 52 Weeks, 2 Days, or 52 Weeks, 1 Day and 6 Hours every Year one with another, according to the English Account of computing Time.

The fourteenth is a Table of Motion, whereby the Motion of the Heavenly Bodies, as the Sun, Moon, &c. (or of the Earth, according to Copernius his System of the World) is computed, of which I need say nothing more, it being more used by the Astronomer than Merchant.

D 2

§ g. Tables

### S. 5. Tables of Quantity in Whole Sale Trade.

Note, That Things in a Whole-fale-way Bought and Sold by the 1000, are

Tacks.
Chair-Nails and TenterHooks.
Brick-Stones.
Flanders, Paving and PanTyles.
Cuttlebones.
Pack and Sail-Needles.
Oranges and Lemons.
Pomgranates.
Goofe-Quills.Copper Spangles.
Tazles.
Thimbles.

Trunnels.
Billets.
Ox-bones.
Leaves of Horn for Lantherns.
Ox-horns.
Hoops for Barrels.
Roe Buck, and Stags Tips.
Pieces of Box-wood for
Combs.
Lamperns.
Yards of Cloth Lift.
Squirril Skins.
Slate and Hilling Stones.

Pins and Small Needles by the 1000 Dozen.

#### 120 in Number is the Hundred of

Coney, Stag, Skins. Balks of all forts. Nails. Barlings. Eggs. and Lamb ( Codfish. Barrel-boards. Ogra. Pipe Boards. Colefish. Hogs heads Staves. Ells of Drilling, Bominars. Lingsids. Bow-staves. Newlandfish. Pack-Duck, Stockfish all forts. Hamborough. Cant-spara Linen Capravens. Heading for Pikes. Silecia, Irish, Cloath. Herring. Ells of Canvas, ex-Muscovia, Deal Boards. cept Strip'd, Tuf-West phalia. Hanever, &c. ted or Quilted:

Of Clap Board the Great Hundred is 24 Small, or 2880, and the Thouland Herrings is 1200.

By the Great Gross containing 12 small Gross or 144 Dozen are bodght and sold in a Whole-sale way of Trade.

Metal,
Glass,
Thread,
Silk,
Handkerchief,
and Hair,
Cap-hooks.
Playing Cards.

Comb and Speciacle, Carles, Speciacle, Carles, Comba and Box Chase.

Chasemen.

Thread and Points.

Silk

Tobacco Pipes.

Things of which five Score is reckoned a Hundred Weight.

Crossbow-Thread.
Ginger.
Horse-Tails with Hair.
Indigo.
Thrums.

CapersChina Roots.
Brass and Manufactures.
Latin

Of Hay the Stone is 141. 4 of which, or 361. is a Trus by 2-William and Mary, Chap. 8. or of new Hay 601 to the Trus in June and Angus, on forfeit of 18 pence per Trus; and the Load is 36 Trus 561. old Hay.

Of Iron and Shor, 14h is one Stone, 2 Stone 1 Quarter of a Hun-

dred, on as in Averdupoize Weight!

In Effectively weigh Cheefe and Butter by the Clove of 3 pounds, and 31 to the Wey. But in Suffelk they allow 42 Cloves or 326 pounds to the Wey.

saind The Berrel of fundry Commodities, is as follows:

 Raifins — 1 C. Weight.

Oyl — 31½ Gallons.

Spanish Tobacco-2 to 4 C.

Gunpowder-1 C. Weight.

Soap — 240 /:

Butter — 224 l.

Heiring — 32 Gallons.

erimination of the Of Timber, 43 folid Feet make 1 Tuo, or 50 Foot Rough Timber 1 Load. By the Book of Rates, 12 Car. 2.

600 Poot of I 400 Foot of 117 200 Foot of 1 Inch Plank, make a Load. 200 Foot of 3 150 Foot of 4.

Where Sea-Coal and Salt are measured by the Corn-Measure. they are Heaped, or elfe there are 5 Striked Pecks to the Bushel; 36 fuch Bulhel in a Chaldron of Sea-Coal, and 21 Chaldron to the Score: The Bulket for Apples fexcept in London and 3 Miles round) is to be heap'd, and contain 18 Inches and a half Diameter within, and 8 Inches deep, by Stat. 1. Q. An.

The Aiftrast of the Ast Anno 7° Ann. Reg. for Ascertaining the Length and Breadth of Woollen-Cloth made in the County of York, is as follows:

. That after the 24th of Hime, 1709, all Broad Cloth maile in the County of York, whether called an End or Half Cloth, or a Long or Whole Cloth, being well Scour'd and fully Mill'd, shall be five Quarters and a half by the Yard Wand in breadth within the Lifts in the Werer, being fully wet. And fuch Cleth.called an End. flialt not exceed 22 Yards in Length, being fully, wet; and Long or Whale Cloth shall not exceed 46 Yards. And Cloth called Whole Thick Kerseys, and Whole Thick Plains shall not be made under 17 Yards and a half in Length, and not less than 2 Quarters and a half in Breadth when fully wet. Any Person that makes or offers to Sale any Cloth not according to the faid Breadths and Liengths, being Convicted by Oath of any Overseer or Searcher of Cloth, or of any Credible Witness, before a Justice (not being a Trader in Woollen) for every Inch the faid Cloth shall be less than the respective Breadths; and for every Yard the Broad Clothe, called Whole Clothia exceed 46 Yards in Length; or an End 22 Yards; or for event half Yard the whole thick Mericys, or whole shick Plains, shall be less than 17 Yards and a half, shall forfeit 20 Shillings, and the Owner of every Fulling-Mill find mark the Cloth with Lead, shewing its Length and Breadth as above Rid. Vide also the Statute Prime And ne Regina. §. 6. Ex-

# 9. 6. Examples of adding Numbers of divers Denominations.

Example I.				1	Ex	amp	6 II.		
Of Troy-Weight.			Averdupoize-Weight.						
842	80 10 11,	15 10 04 19	6°. 20 05 17 23	7m. 147 119 7	16 03 19	3 1	14 04	15 01, 10	15
Totals-1308	04	10	17	276	10	3	01	09	03

Exemple III.	Example IV.	Example V.		
Of Wine-Measure.	Beer-Measure.	· Ale-Measure.		
Ton. Buts. H-ds. Gal. 31, 01 01 38 10 01 00 10 5 00 01 60 7 01: 01: 09	Bar. Fig. Gal, 31 03 08 . 17 02 01 12 01 05 72 03 06	Bar. Fir. Gal. 71 03 07 18 01 08 28 00 02 13 02 06		
Tot.55 or 00 54	124 02 02	132 00 00		

14	¥H.	Example			ple V	Exen	
1	<b>208.</b>	Of Do			Time.	Of	
Things Pieces;	D02.	Sm.Gr.	Gr.Grefs.	Seconds,			Deys.
09	90	09 11 02	148 26 531	20 50 11	59 00	5 23 10	420 510 21
09	04	10	5—-765	9—Total	51		987

24

By these sew Examples, with the help of the sortgoing Tables, the Learner will be enabled to add any Numbers proposed of what Denomination sower; which Tables he will find exceeding Useful, not only in this Rule of Addition, but likewise in the following Parts of Arithmetick and Merchant's Accompts.

#### \$. 6. The Region and Demonstration of Addition.

BY Enclid, Lib. 1. Axiom 9. of his Elements, the Whole is equal to all its Parts taken together.

So the Right-line (gb), is equal to the 3 lines ab, ed, and ef:

For the 2 lines ab, cd, and ef, being all the Parts send for contained in the whole line gb, and the line ab, gend added to cd, and that Summ to ef, making up the line gb; therefore the line gb, is equal to the Summ of the Parts, viz. to ab, more cd, more ef, taken together:

Or, in Numbers I say, that 15, 16, and 42 make up 73; which cannot be denied, since there are no more Units in 73, but 15, 16, and 42; and the Units in 15, 16, and 42; making 73; therefore the Number 73, must be equal to the Numbers 15, 16, and 42.

Total-73

2. The Reasonableness of the Rules given for adding Numbers together, will thus appear from what was said in Numeration, of the places of Numbers: For in Addition every degree or place must be added to the like degree or place; So that in the Units place, if there is one or two Tens, it is plain that those one or two Tens must be added to the Numbers in Ten's place, because they are of the same Denomination; so if in a Rank of Figures (in Ten's place) I find 2 or 3 times Ten, for every 10 in Ten's place, I have One Hundred to carry to the Hundred's place; for 10 times 10 is One Hundred, as was observed before; Hundreds must be added to the Hundreds, because 'tis of the same degree or place.

I.

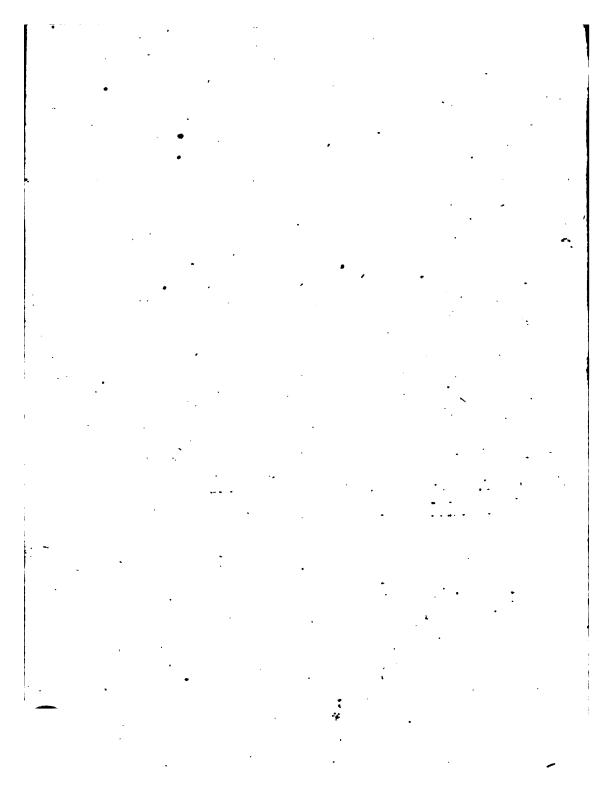
#### For Example.

In adding 149 1. 17 s. to 18 1. 8 s: I say, 149 8 hillings and 7 hillings, is 15 shillings, which 18 is I Ten to be carried to the place of Ten shil-168 lings; which one Ten being added to the other Ten, makes two Tens, or 20 shillings: which being one Unit of the next Denomination, viz. Pounds, I therefore add the a pound to the Unit's place of pounds; saying, a and 8 is 9, and 9 is 18 pounds, which 8 being Units of pounds, I place it in the Units of Pound's place of the Summ, and carry the 10 pound to the 10 pound's place, of which Denomination it is one: So I Ten and I Ten is 2 Tens, and 4 Tens is 6 Tens, which being less than 10 Tens, or 100, I have nothing to carry to the Hundred's place; so I place 6 in Ten's place of the Summ, and put the 100 to the Left-hand in Hundred's place of the Summ: This being observed, any Summ may be added, without carrying any thing from one degree or place to another, (which is done purely to fave

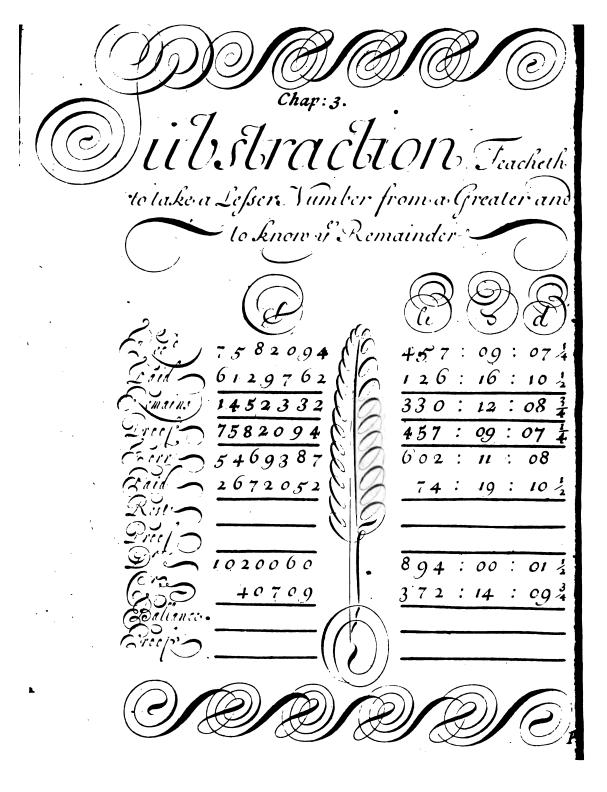
Let it be (2976 required \( \) 4132 to add, \( \) 8647	The Summ of the Figures in Unit's place is—15 Of Ten's place is————————————————————————————————————
Summ 15755	The Total of which is—— 15755 Equal to the first Total.

trouble:) For inflance;

Because Addition and Substraction do prove each other, I shall shew the Proof of Addition after Substraction, which followeth.







# Subfraction heither,

- r. Of Numbers of one Denomination: Or,
- 2. Of divers Denominations, and is the Converse of Addition:
- So 2. When you have placed the Numbers in Order, the lesser under the greater, as is usual, unless it may, as sometimes it does (by having the lesser Number uppermost) save the trouble of removing a Number; this is the

Main ] Having drawn a Line under the Numbers given, begin with the Digit flanding in Unit's place, of the Number to be subfiracted, and taken from the Figure possessing the like place of the greater Number; placing the Excess or Disserence under the line, doing in like manner with all the rest. But if the Figure in the lesser Number be greater than the Figure possessing the like place in the greater Number; then you mast add to to the said lesser Figure, and so proceed to take the said greater Number from the Summ, placing the Remainder under the line; and because the 10 borrowed was supposed to be taken from the next Figure toward the Lessessing, therefore add one to that Figure, and so proceed to substract, as in the sormer placing the Excess under the line, as before.

Example. ] Admit I have laid out Cash, the Summ of 4579 pounds, out of 6947 pounds, which I had in Bank, what Summ

remains yet in my hands?

The Numbers being placed, take 9 the Unitsplace of the lower line from 7, in the like place in
the upper line; but because you cannot, borrow 10
from the 70, which stands in the Ten's place, and
add to the 7 which stands in the upper line, making
to 17; 60 9 from 17 will leave 8: which put under
the line, and say, 1 (that is 1 Ten) I borrowed and 7 is 8, from 4
and 10 you borrowed as before, that is from 14, leaves 6; which
place under the line, saying, 1 you borrowed and 5 is 6, from 9,
leaves 2, and 4 from 6 leaves 2; which being put under the line,
there will appear to remain in my hands 2368 pounds.

In like manner, in the first Exemple foregoing, if you take 6129762 Hundred from 7582094, there will remain 1452332;

for

for 2 from 4, and there refts 2; 6 from 9, refts 3; 7 from 10, (which I borrowed) refts 2; 1 borrowed and 9, is 10, from 12 refts 2; 1 borrowed and 2 is 3, from 8 refts 5; 1 from 5, refts 4; and 6 from 7, and there refteth 1; so the difference between the Numbers given is 1452322.

#### S. 2. How to substrate Numbers of divers Denominations.

In the first Example foregoing of Pounds, Shillings, Pence and Farthings, you have 126 1. 16 1. 10. to deduct from 457 1. 9 1. 7.4. To perform which, begin with the farthings; faying, 2 from 1, you cannot; but a from 4 farthings (or 1 Penny which you borrow from the pence) and the I farthing in the upper line, that is, from g. and the remainder is 3 farthings; which put under the line as you see, saying, 1 I borrowed and 10 pence is 11 pence, from 7 pence you cannot, but from 19 (borrowing a shilling or 12 pence from the shillings, and adding to the 7) and the remainder is 8 pence; which put under the line, and say, a shilling you borrowed and a6 shillings is 17 from 29 shillings (borrowing 20 shillings or 1 pound from the pounds, and adding to the 9 in the upper line) and there refleth 12 shillings, which place under the line, and say, a pound you bortowed and 6 (in the pound's place) is 7, from 7, leaveth (o), put (a) under the Unit's place of pounds, and say, a from 5, and there refleth 3, and a from 4, and there remains 3: so the Remainder is 230 l. 12 s. 83 d.

More Examples follow.	C.	Lrs.	· 15
Bought Cotton Wool —————	131	1	20
Sold out	92	3_	27
Remains —	- 28	- 1	21
Bought Silver, Weight 15	-	p w. 09	gr. 14
1b. 3 p.w. gr.  Sold out at one time— 4 10 16 00  At another time—— 12 09 04 16	, •8	. co	16
Resteth unsold 1	04	o8 ∳. 3	

#### S. 3. A Second Way of Substration.

I think it a much better way, when any thing is borrowed, to add to the Figure in the Number from whence you substract, in case it is too little: To take what is borrowed from the Figure standing next towards the Left-hand of the Figure that is too little, and suppose the Figure from whence you borrow to be so much less: So will you never need to pay what was borrowed, as is before taught.

#### EXAMPLE.

Here, instead of saying 4 from 11 rests 7, and 1
borrowed and 8 is 9, from 12 rests 3: It will be
much less trouble to suppose the 10 borrowed to
be actually taken from the 2 as it really is, and so
the rest of the Figures: so must you say 4 from 11
rests 7, 8 from 11 rests 2; 1 from 8 rests 7, 9 from 17 rests 8, 2
from 2 rests 0. This way of Substraction is much more natural
and reasonable than the former, or common way; but the Learner
may use which he pleasest: though I doubt not, but were this way
as much practised as the former, it would be found much better.

#### S. 4. The Reason and Demonstration of Substraction.

From the Axiom aforesaid of the whole, being equal to all its parts taken together, we may demonstrate (or undeniably prove) the Premises. For the Number from whence we make Substraction, is the whole; and the Number to be substracted, is part of that whole. Now if the part be taken from the whole, what remains will be the true difference between the part and the whole; for the whole containeth no more parts than the Summ made of the part taken away; and the part remaining, and the part taken from the whole, is only so much less than the whole, as the part remaining: Therefore the part remaining is the true Excess or Difference between the whole and the part taken from it.

As to the reason of the Rule for Substraction, I need say no more than what is above concerning the Second way of Substraction, and what 20 The Proof of Addition and Substraction. what was fald in the Reason of Addition, and what follows in the

proving Substraction.

#### S. 5. The Proof of Subbraction two ways,

The Demonstration foregoing is sufficient to prove the Truth of Subfiraction: But because there was no Example, take these following

The Summ of the Subtrahend and Remainer is equal to the Number given, from whence Substraction is to be made: For in-

flance:

From 5:6742 Take 39752) Remains 16990

> Proof 16743 the Summ, equal to the Number, from whence Substraction is to be made.

> > Or thus by Substraction.

From the whole \$6742 Take the part 39752

Remains 16990 Which deduct from the whole,

And there resets the? part given to be deducted \$ 39752 for Proof.

#### S. 6. The Proof of Addition two ways.

After you have taken the Summ of the Numbers given to be added, you may prove the Truth of the Summ by separating the faid Numbers into two parts with a line, and the Sum of those parts will (if there be no Error ) be equal to the Aggregate or Summi of all the Numbers given.

#### BXAMPL B.

equal to the first Total.

5762 The Summ of these parts 7182 17) 1022 8942 The Summ of these parts 10543 of 18 The Total. 17735 The Total of these is? 17725 18 Proof.

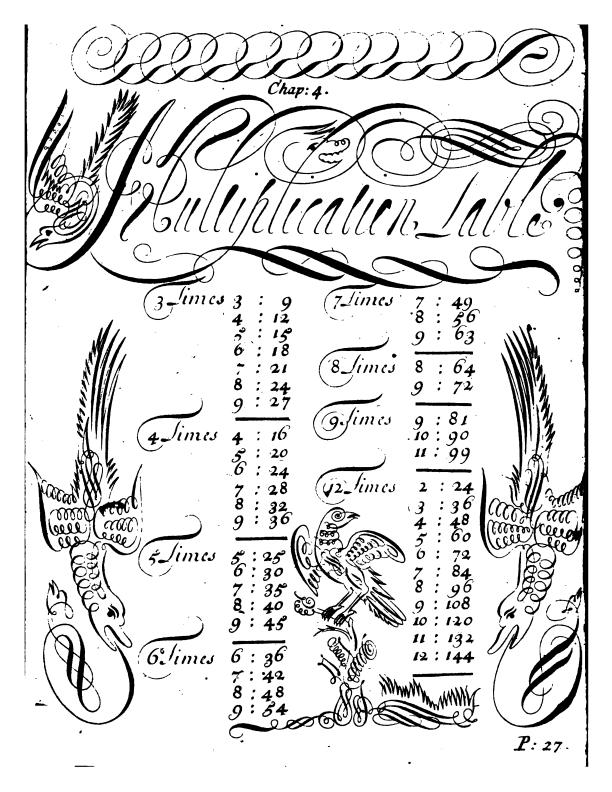
#### Or thus by Substraction.

The total Summ of the Numbers given is-12725 from which deduct the first Number \_\_\_ 5762 from which deduct the second Numberfrom which deduct the third Numberfrom which deduct the fourth Number - 8942 And there remains equal to the fifth Number -Which proves the Work.

A Multi-

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រីជូទូរ៉េ -

## . . . 2. A Brief Multiplication Table.

Times	51 6	7	8.	91	t
5-18	25,530	, 352	40,	45	ាស់ ស្នេច សាសា កាសា
· 8	<del>-</del> 36	, 42, - 40	48,	54	`
8		- 49; <del></del>	64,	72	• •
9		•		81	

# 3. The shortest Multiplication Table that has been invented.

24 5, 4, 3, 2, 1. (Twa of these matery) refrestively.... (or fanare one Withbur)
w/15, d, 7, 7, 9. Mainberr, whereof the Food. of 2 is required (d the Squ. of one.)
† 0,10,20,30,40. Two of these, add respectively.... (or double one Numbers).

Example.] How many is 6 times 9? Under 6 (in the middle line) flands 10: under 9 is 40, the Summ of which is 50. And the 4 (which flands over the given 9) is 4; to which add to the 50, the Product of 6 times 9 is 54:

Example 2. ] 5 times 8 is 40; for 30 (under, the 8 in the middle line) added to 0 (under 5) the Summ is 30. And, 31 (over the given 5.) multiplied by 2 (which is placed over the given 8) is 10, which added to the 30, the Summ is 40.

Example 3. ] To former any of the middle Numbers (or multiply it by it felf.).

As suppose 8 times 8, double the Number under 8 (which is 60) and square that above 8 (which is 2 times 2, or 4) so the Answer is 64.

Note, It is reasonably supposed that any one can multiply 9 or any No under that, by any of the 3 multiplying Digits under 5.7 without a Table. A little Practice makes this Table as easie to use any, if not easier, there being to sew Numbers to inspect.

Entered to the second will be to the second with the control of the second seco

Ultiplication is a Rule by which any Number may be so increased by multiplying it by another, as to produce a third Number, which shall bear such reason or proportion to either of the Numbers given, as the other does to a Unix.

The two Numbers given to be multiplied, are for flortness termed

the Factors: Or,

The one (commonly the greater) is called the Multiplicand and is that Number given to be multiplied.

The other is called the Multiplier, and is that Number by which

the Multiplicand is multiplied.

The third Number, which is that produced by multiplying the two given Numbers together, is called the Product, or in Geometry is is called the Rechangle.

By this Rule is compendiously performed many Additions, As 4 times 80 is 320, which would require three Additions to know:

as you see in the Margent.

Multiplicand 80 Factors.

Product 310 80 Add

Multiplication is either Simple or Compound. 80

Simple when the Factors are both Digits: And,

Compound when the Factors are one or both 320 Summ.

mixt Numbers of Articles.

[Before you go my farther, you must get the foregoing Tables' by heart; which, supposing you have done, take the following Rules for working any Summ propounded.]

Cose 1. ] When the Product of each Figure in the Multiplicand, by the Multiplier is less than Ten, how to multiply by a Digit,

Rub. ] Having placed the Factors, Units under Units, as in the Margent, multiply each Figure in the Multiplicand by the Multiplier, and place the several Products under the line, beginning with the Figure in Unit's place of the Multiplicand.

Example. What comes 3214 pound of 3214
Tes to, at 2 pound per pound? 2

Say, 2 times 4 is 8, which put under a line, as in the Margent; faying, 2 times 2 Product 1. 6428 Anf. is 2, 2 times 2 is 4, and 2 times 3 is 6: to the Answer is, 6428 1. Cess 2.]

Cefe 2. ] When the Product of any of the Figures in the Multiplicand, by another in the Multiplier, is 10, or any Number of Ten's.

Rule | Pur down in the General Product the Number of Units. that the Product of any 2 Figures in the Factors, are above 10, or my Number of Tens, and carry the faid to or Tens to the Product of the next Figure, and so proceed till all the Figures in the Multiplicand are multiplied by the Multiplier.

Example. What is the Price of 3484 Secks of Cotton, at 9 pounds per Seck?

3484 } Factors.

According to the Rule, say, 9 times 4 is 26: put the 6 under the line, and carry 3; And 1 31456 Product. Mying, 9 times 8 is 72, and 5 I carry is 75: put down the 5, and carry 7; faying, 9 times 4 is 26, and 7 is 42: put down 2, and carry 4; faying, 9 times 3 is 27, and 4 I carry is 31: which put all down: fo will you find the Anf. 21356 l. as per Margent.

Cafe 2. ] When the Factors are each above 10, how to find the

Product.

Rale 7 Multiply the Figures in the Multiplicand by that flanding in the Unit's place of the Multiplier, as before, and in like manner multiply the Multiplicand by the Figure flanding in the Ten's place of the Multiplier: but you must place the Unit's place of the second Product under Ten's place of the first, and the other degrees in order: Ten's under Hundreds, Hundreds under Thousands of the first Product: which done, add the Products together, and the Aggregate or Spmm is the General Product required.

Example. ] What is the Price of \$94 Ton of Iron, at 18 pound per Ton?

Note, That if there had been 3 Figures in the Multiplier, when you were to multiply by that in Hundred's place; the first Figure of the Product must have been placed Ani. J. 10692 Product. under the 9 in the lower of these Products:

The following Examples will make it plain. Example 2 ] What is the Value of 978 Hoghesds of Sugar at 213 shillings per Hogshead: See the Work by the Rules above.

1947 185	Factors.
4752	

594

21	3
293	4
978	•
tor6	

Aniwer 208214 shill.

# 36 Multiplication of whole Numbers.

Case 4.] When you have any Number of Cyphers towards the Right-hand of the Multiplicand and Multiplier, or either of them, Multiply by the agnificant Figures, and put the Cyphers toward the Right-hand of the Product.

Example 1.] Admit the Earth's Circumference is 360 Degrees, and that one Degree is 60 Miles, how many Miles is it round the

Earth?

36a Degrees. Ractors.

Answer 21600 Product.

Example 2. ] If in a Mile is 1000 Paces, how many Paces in 1000 Miles?

1000 Factors.

Answer 1000000 Product.

In this and the like Examples where the Multiplier is only a Unit with Cyphers, place those Cyphers to the Right hand of the Multiplicand, and you have the true Product; for I neither augmenteth nor diminisheth any Number by Multiplication nor Division, and is therefore by some fail to be no Number; but I and a being 2, proves the contrary.

. Cafe 4. 1 When Cyphers policis any other place than next the

Right-hand of the Multiplier.

Rule. ] When Cyphers fland in the middle of the Multiplier, you mustiplace the Unit's place of the Product made of the Figure flanding, next the Cyphers toward the Lase hand, so many places forward as there are Cyphers in the said Middle, supplying their places with as many points; so will you not need to make so many lines of Cyphers, as many ignorantly do.

Reapple of Multiply 3943 200 Factors.

78846 78846

, 275961: y

2838534846000 Product.

\$. 2. The

### S. 2. The Reason and Demonstration of Multiplication.

If two Lines (or Numbers) be given, and one of them be divided into any Number of Parts; the Product made of the two whole Lines (or Numbers) is equal to the Product made of the whole Line (or Number) and the feveral Parts of that divided. Vid: Euclid's Elements, Prop 1. Lib 2.

To inflance in Numbers: If 346 were to be multiplied by 122, which 122 suppose divided into 3 parts, viz. 100, 20 and 2: I say, the Product made of 346 by 121, is equal to the Summ of the Products, viz. 346 by 100, 346 by 20, and 346 by 2; as followeth.

346	346.	346
100	20	2
1\$\beta\$. Product—34600 2\$d Product—6920 3\$d. Product—692	6910—2d. Product	692 - 3d. Prod.

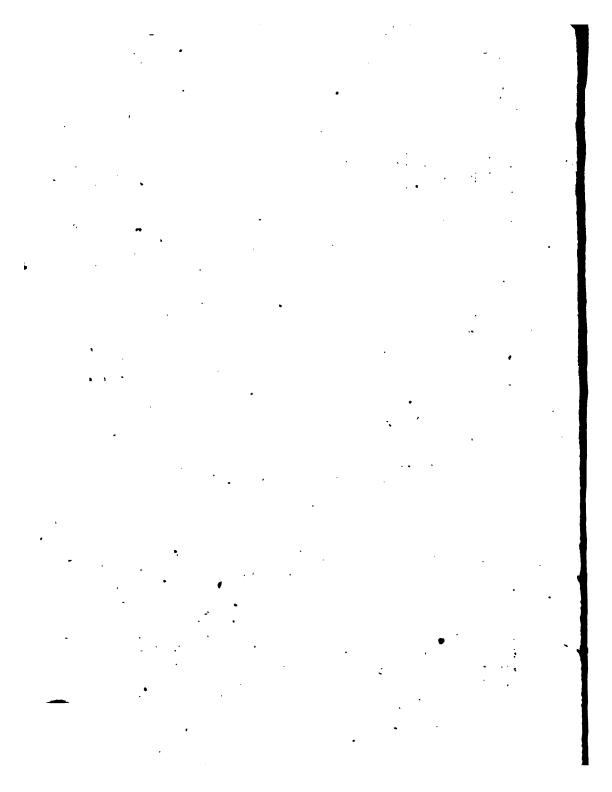
Summ -42212 The Product, equal to the Product of 346
by 122
692

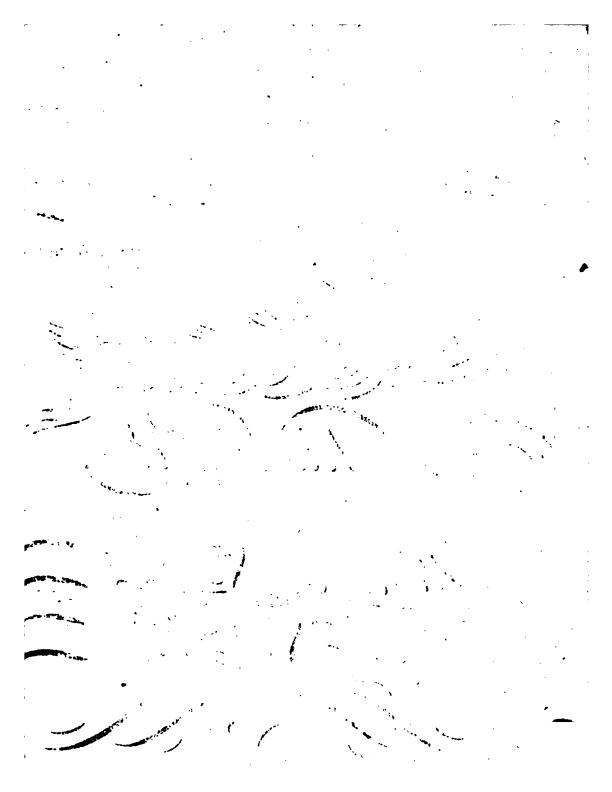
692 692 346

Viz 42212.

For there being no more Units in 42212, than in the Products 34600, 6920, and 692; nor any more Units contained in the Products 34600, 6900, 692, but what is contained in the Product 42212; therefore the Products 34600, 6920, and 692, are equal to the Product 42212.

From hence also is the reason of placing the Units of the second Product, under the Tens of the sirst; Units of the third, under Tens of the second, &c. As in the Example; where 324 by 3, is 972; 324 by 20 (.2 being in Ten's place) is 6480; and 324 by 100 (1 being in Hundred's place), is 32400; and if the 3 Cyphers be omitted (which 'tis most proper to do, since they make no Number, greater by Addition) the Numbers will stand as in ordinary Summs in this Rule: see the Margent. The Summ





139 (SUM to Livido or Seperato any Lumber Quantity into as many Parts as yourplease; THE Dividend is the Number given to be divided.

The Dividend is the Number by which the Dividend is divided.

The Quotient is the Number of times that the Divisor is con-

min'd in the Dividend.

The Remainer is the Number that may remain of the Dividend after the Divider is had, as many times in it as is expressed in the Quotient: From whence it follows, that the Remainer must be always less than the Divider, or otherwise the Divider might be had oftener in it.

As Multiplication is a compendious way of Addition, so Division is the work of many Subfractions; for is 12 be divided by 4, the Quotient will be 3; for 4 may be taken 3 times out of 12.

Dividend
Dividend
Dividend

O Remainder

Remains 8.

2d. Take 4

Remains 4.

3d. Take 4.

There are feveral ways that I could easily shew for the dividing one Number by another; but I shall only insert one, which is plainer than Cancelling, and shorter than the other ways commonly practike; and is therefore, in my opinion, the best.

Cese 1. ] To divide any Number by a Divisor, consisting but of one place.

Let it be required to divide 37642 by 7.

Having made a crooked (or say other) Line at each ead of the Dividend, to separate it from the Divisor and Quotient, make a point or prick under 7 in the Dividend, (not under 3, because you cannot take the Divisor from the 3,) and say; how often is 7 (the Divisor)

Division of whole Numbers: Divisor) contained in 37, the first Branch toward the Left-hand of the Dividend & the Answer is 5 times; which (5) put in the Quetient, and multiply the Divisor thereby; saying, 5 times 7 is 25; which deduct from the faid 37, and put the Remainder (which is 2 ) under a Line; as in the Example:... Then making a prick under the 6 (as a diffinguiffring Mark; that no Figure. may be brought down twice) place it to the Right-hand the Remainer (2) and ask how often 7 is contained in 26? the Answer is 2 times; which put in the Quotient, as before, multiplying the ... Divisor thereby: As, 3 times 7 is 21, from 26, and there remains (5;) which 2 Remains. put under the 6, drawing a Line between the 26, and the 5: Then make a prick under the next Figure towards the Right hand, in the Dividend; Viz. under (4,) and place it to the Right hand, the Remainer . making it 54, and ask how often the Divisor (7) can be had in 54? the Answer is 7 times; which put in the Quotient, and say, 7 times 7 is 49, from 54 and there refts (53) which put under a Line, as bfore. Lastly, make a prick under the 2 in the Dividend, and place it to the Right-hand of the 5, and ask how often the Divifor (7) can be had in 52? the Answer is 7 times: which put in the Quotient, and multiply the Divisor thereby; saying, 7 times 7 is 49, which deduct from the 52, and the Remainer is 3; and you have no more Figures in the Dividend. So the Work is finished: and I find that, \$377, is one seventh part of 37642, and 3 over. .

The Rules for the last Operation, are thus contracted.

5 = (37) = (35) = (35) = (37) = (2) To which, bring (37) = (35) = (36) = (37) =

Exam-

Example 2. ] By the foregoing Method is the Number following divided, viz. 917640 by 9.

Dividend
Divisor 9) 917640 (101960 Quotient.

86 54 (00) Remains.

Note, That when the Divisor cannot be had in any part of the Dividend, that is brought down under a line: In such case you are to put a Cypher in the Quotient, and bring down the next Figure in the Dividend; as in the Example 9 cannot be had in (1,) therefore (0) is put in the Quotient, and 7 brought down, which makes the 1 to be 17, &c.

Case 2. To divide any Number by a Divisor, consisting of 2,

3, or 4 places.

Rule.) It many times happeneth in dividing a Summ by 2, 2, &c. Figures; That though you can have the first Figure of the Divisor in the first of the Dividend, yet you cannot have the rest of the Figures of the Divisor in the like Number of Places of the Dividend; as if 316 be divided by 182, in this case I (the first of the Divisor) can be had 3 times in 2, (the first Figure in the Dividend,) but the rest of the Figures in the Divisor; viz. 82, cannot be had 2 times in 16 (the rest of the Figures in the Dividend,) therefore you must make trial whether the Divisor can be had one time less in the Dividend: As here; see if 182 carr be had 2 times in 316, and multiplying in your mind, (or on some piece of Waste-paper) 182 by 2; which Product, if you find yet more than the Dividend 216, (as in this Example you will, and consequently cannot be deducted from it.) then take 182 but I time in 316, and put one in the Quotient. Take good notice of this, for it is the only difficult thing in Division; and that it may appear plain, take the Example tollowiog.

Land Armingson shall be said Let it be required to divide 75224 by ant to an in the

To perform this:

1. Make a Point under c. because you can deduct: 24 from 75, etherwise the Point must have been made under the third Place.

2. Ask how often 2 can be had in 7?-the Answer is 3 times.

2. Before you put the 2 in the Quotient, make trial in your mind, if the Product of 24 (the Divisor) by 2, do not exceed 75.

which you will find it does not.

4. Therefore put 3 in the Quotient, and fay, 2 times 4 (the Unit's place of the Divisor) is 12, which deduct from 5, and 10 that you borrow (for you must always borrow fo many Tens. as that the faid Product of the Figure in the Quotient and Divisor may be deducted, ) that is, from 15, and the Remainder is 2; which put under a Line, and carry the . Ten you; horrowed in your mind; faying, 3 times a (in the Divisor) is, 6, and r your borrowed is 7; from the 7 in the Dividend, and the Remainer is (0.)

5. To the Remainer (3) bring down the next Figure in the Divi-

dend, which is 2:

6. Ask how often 2 can be had in 2? or how often 24 (your Di-Remains 32 Brought down. visor) can be had in 22.2 the Answer is 1.

7. Put 1 in the Quotient.

8. Multiply 24 (the Divisor) by 1; faying, 1 time 4 is 4 from 12 (borrowing 10) and there refts.

8; which pur under the line, saying, i time 2 is 2, and 1 horrowed is 3, from 3, and the Remainer

**is** (0.) 2. To the Remainer 8, bring down the next Figure in the Dividend, which is 3, (always making a point under the Figure you: bring under the line for the reason aforesaid ) so have you age en-

quire therefore.

10. How often 2 the first Figure in the Divisor toward the Land. hand can be had in 8? the Answer is 4 times; but if you make trial;

- 24) **75**321 (1174

Remains 82 Brought down.

Remains TII Brought down

14 Remainer.

you will find the Product of, 24 by 4 to exceed 20 3 to that you can have but 24, 3 times in 83.

11. Put 3 therefore in the Quotient, as you see in the Example.

12. Multiply 24 the Divisor by 3; saying, 3 times 4 is 12, from 13 (borrowing 10 to add to the 3 last brought down) and there remains 1: which put under the line as you see; saying, 3 times 2 is 6, and 1 borrowed is 7, from 8, and there remains 1: which being in the Ten's place, makes Eleven.

13. To this 11 bring down the last Figure from the Lest-hand

in the Dividend, viz. (1.) and you have 111.

14. Enquire how offen 24 (the Divisor) can be had in 111, or how often 2 in 11, (because 111 is 1 place more than 24.) the Antwer is but 4 times, for if you take it 5 times, you cannot deduct

5 times 24 from 111.

15. Multiply 24 the Divisor by the Figure you put in the Quotient, which is by 4; saying, 4 times 4 is 16, from 21, (borrowing 2 Tens to add to the 1 in Unit's place) and there rests 5, and carry 2, and 4 times 2 in the Divisor is 8, and 2 borrowed is 10, from 11 the last Remainer, and there remains 1. So the Work being sinished, I find that 24 is contain d in 75231, 3134 times; which I have made so plain (proceeding step by step) that any one, though of ordinary Capacity, may understand it; and by it any other of the like Nature, though the Divisor consists of never so many Figures: Take one other Example of this Case.

Let it be required to divide 319462 by 548?

548) 319462 (582

1622

426 Remainer

per treat of the first and a few first state of the first state of the Dividence of the first state of the Ophars.

G 2

Вy

(30,35035)

By the Rules foregoing, this last Operation will be performed as followeth, being contracted.

```
is 40, from 44,
  is 20, & 4 is 24,
  from 29, reft----
5 is 25, & 2 is 27,
  from 31, refts--4
       Remains 454: To which
       bring the 6, and enquire.
8 is 64, from 66,
  is 32, & 6 is 38,
  from 44, refts—6
5 is 40, & 4 is 44,
  from 45, refs--1
       Remains 362: To which
        bring the 2, and enquire.
8 is 16, from 22,
4 is 8, & 2 is 10,
  from 12, refts—2
5 is 10, & 1 is re,
  from 16, rests—
       Remainer 526
```

Cofe 2.] When Cyphers possess the first, second, third, on

places of the Divisor, how to abbreviate the Work.

Rule.] As many Cyphers as you have in the Divisor (toward the Right-hand) so many Figures separate (toward the Right-hand of the Dividend) from the rest by a point or dash with the Pen, and divide the remaining Figures toward the Lest-hand in the Dividend, by the significant Figures in the Divisor, leaving out the Cyphers: See the Operation following.

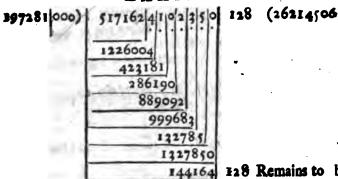
55629100)

. 15629 00) 1374281 20 (87

123961

1455820 Remains to be divided into 1562900 parts, which will be less than a Unit.

## EXAMPLE 2.



128 Remains to be divided into 197281000 Parts.

EXAMPLE 3.

### 54 Remainer to be divided by 100.

Note, That when the Divisor is a Unit with Cyphers, as this last Example; then if you separate so many Figures from the Right-hand of the Divisor (as was taught before) that part of the Dividend toward the Lest-hand of the Dash is the Quotient, and that to the Right-hand is the Remainer: As in this Example, you see 36 is the Quotient, and 54 the Remainer: because when the Cyphers are cut off the Divisor, there remains only 1 to divide by; and it has been taught before, that no Number is made less by dividing by 1.

# S. 2. The manner of working Division explained, and the Reason of it shewed.

The two great Difficulties that appear in Division, are,

1. That when a Number is to be divided by another, confifting of feveral Degrees or Places of Figures, it cannot be known without Trial, how often the Divifor can be had in the Dividend.

2. The subfracting the several Products made of the Quotient, and Divisor from the Left hand of the Dividend, seems incoherent with the Rules of Substraction, of deducting Unit's place from Units, Ten's place from Tens, &c.

To remove both which Difficulties, take the Example and Rules following, where the whole Work of Division is made plain and case to be understood by a mean Capacity.

The Example I make use of shall be to divide 19467281 by 426.

## The Work of Division Explain'd.

the Divisor. 19467281 by a - 426) (40000 - Firt Quotient. #7040000 852 2427281 5000-Second Quotient. **— 1278** 21-39000 600 - Third Quotient. 297281 **—** 1704 by 5 == 2130 255600 by 6 - 2556 41681 90 = Fourth Quotient. by 7 = 1982 38340 by 8 = 34087-Fifth Quotient. 3341 by 9 - 1834 1982 (Rem. 359) 45697 The Summ of these Quotients, which is the true General

In this Example,

Products of

1. I have made Products of the Divisor, multiplying it by the Greral Digits against which the said Products stand.

Quotient,

z. As is usual I prick under the 6 in the Dividend, because I can take the Divisor from the 4 first Figures towards the Lest-hand of the Dividend.

2. I consider what place the sink Figure in the Quotient toward the Left-hand will possess, which is always the same with the Figure, under which the first Point or Prick is made, and in this Example is Tens of Thousand's place; so that what Figure seever is first put in the Quotient, is so many Tens of Thousands,

4. I look in my 9 Products, which of them is next to, and less. than the 4 first Figures to the Left-hand of the Dividend, and find the Product 1704 to be next; right against which, in the Series of Digits, stands 4; wherefore I put 4 in the Quotient, which is 40000; because (as was said in the last step) the Quotient will have & Places.

5. I multiply the faid 1704 by 1900s, because the 4 is in that place, or the Divisor by 40000, and the Product is 17040000, which (according to the true Rules of Substraction) is to be taken from the whole Dividend, and the Remainer (as in the Fxample) is 2427281.

6. I look as before, which of the 9 Products is next to, and less: than the 4 first places toward the Lest-hand of my new Dividend 2427281 (because mone of the Products can be had in 3 places,) and I find 2120: right against which stands the Digit s, which must be 5000, because it is to stand in the Thousand's place of the Quotient, where having placed it, I multiply (as before) the 2120 by 1000, or the Divisor by 5000, and deduct the Product from the new Diviand 2417281, proceeding with the rest of the Figures till nothing. or a Number less than my Divisor remains: which done,

7. I fumm up the 5 Quotients as in the Example, which make the General Quotient 45697; and so the Work is ended, and if the Cyphers in the Subtrahends be omitted, which shortens the Work. then will the Operations appear as in common Summs, which gives you the reason why Substractions seem to be made from the wrong end of the Dividends: This may suffice to explain Division, which:

was never ( to my knowledge ) done by any one before.

### S. 3. The Demonstration of Division.

The design of Division is to discover how often the Divisor is contained in the Dividend; whence it necessarily follows. That the Quotient contains 1, so often as the Dividend contains the Divisor. And if the Quotient contains Unity as often as the Dividend does the Divisora Divisor, it sollows from the 5th Definition to the 5th Book of Eactid's Elements, That the Quotient is in proportion to 1, us the Dividend is to the Divisor; and consequently by the 16th of the 6th of Euclid's Elements, the Product of a true Quotient, multiplied by the Divisor, is equal to that of Unity by the Dividend; and all Quotients, having these Affections, are therefore true Quotients, and not otherwise.

Example I If 144 be divided by 6, the Quotient arising (by

the foregoing Rules for Division) shall be 24.

For the Quotient 24 contains 1, so often as 144 contains 6, and consequently by the Definition above.

24. I:: I44. 6.

i.e. As 24 is in proportion to 1; so is 144 to 6. And by the said 16 of the 6th Euclid.

24 × 6 - 144 × 1.

i. r. The Rectangle or Product of the 2 Extreams 24 by 6, is equal to that of the 2 mean or middle Numbers 144 by 1. So that 24 is the true Quotient of 144 by 6.

The Refult of this Arithmetical Division is the same with the Geometrical. And is demonstrated by Exclid 44, 1, as is shewed by

Mr. Williams and others in the Use thereof.

### S. 4. The Proof of Division.

Division may be proved by dividing the Dividend by the Quotient, and the Quotient will be your former Divisor. Or, you may prove it (as is more usual) by Multiplication, for if you multiply the Quotient and the Divisor together, the Product will be equal to your Dividend.

To instance in the Numbers following: If 1728 be divided by 12, the Quotient will be 144; an if, for proof, you divide 1728 by 144 the Quotient will be your former Divisor (12:) Or, if you multiply 144, the Quotient, by 12, the Product will be 1728: See the Work.

**Dr** 

Or thus by Division.

144) 1728 (12 The former Divisor.

288

o Rem.

### S. 5. The Proof of Multiplication.

The only true way to prove Multiplication, is by Division; for if you divide the Product by either of the Factors, the Quotient will be the other.

Example: ] In the Example of the second Case of this Chapter, 3484 being multiplied by 9, produceth \$1356; And if \$1356 be divided by 9 the one Factor, the Quorient is the other Factor; as in the Example.

9) 313;6 (3484 Quotient.

43

75

36

#### o Remains.

Some Authors have taught to prove Multiplication, by taking the Nines out of the Factors fingly, and multiplying the Remainers together, and taking the Nines out of the Product, noting that Remainer; then taking the Nines out of the first Product, and if the Remainer be equal to the forementioned, they conclude the Work to be right; but that does not at all follow, for by this Rule you may prove a Thousand false Products as true ones.

Example.] Admit 3765 were to be multiplied by 58, the true Product is 218370; but if you suppose the Product 398370 (which is 180000 too much) or 245370 (which is 27000 too much) they will both prove right according to this Method; nor is there any other Method to prove Multiplication by, so true and concise as by Division; tho' 'tis indeed needless to prove every Summ you work, by any Method, provided you be careful in the Operation; or it may not be amiss if your Work is great, to run it over twice very carefully; and if you find both times agree, 'tis to be supposed your Work is right.

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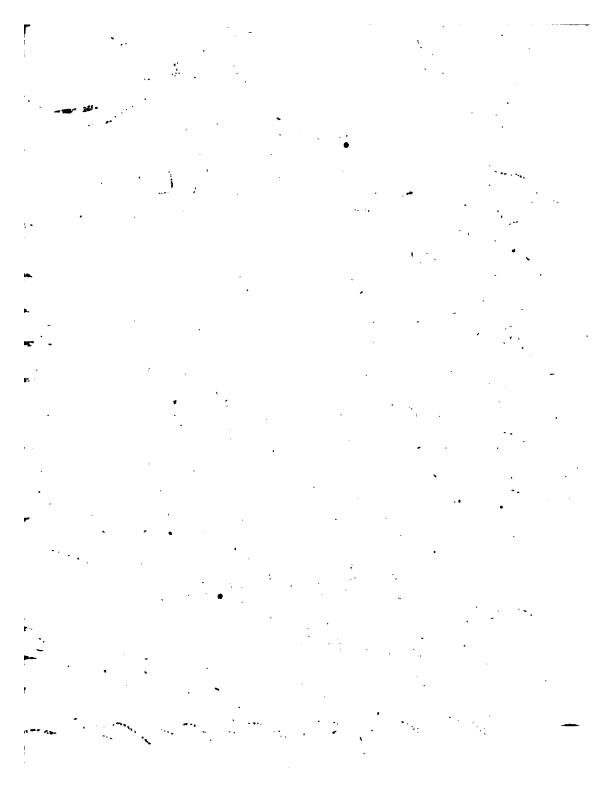
Reduction

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#### ori, le

The second secon



Chap: b.m CAUCUOIbIs a Kule Consisting of two Larts viz. 150 Reduccing of a Sumber from a greater love a lesser Denomination, as founds into, Othillings, Bundreds, into Lounds, Vards, into Fest; 5000 the ise called Reduction Descending and is performed by a Hiltiplication The Reduccino (fa Numero from a celser to a greater lame, or Denomination, as Sect, into Yarde, Gallons into Barrelle Farthings into Dounds; se which is called Reduction Ascending sis performed vision To that all Questions in Reduction are reschools either by Mulliplication or Division or bets welchall be further Explained by the Questions following

Case 1.3 When a Number of one Denomination is given to be reduced into a leffer Denomination.

Rale. Multiply the given Number by so many Units of the

Rule.] Multiply the given Number by, so many Units of the inferior Denomination into which you would have the Number given reduced, as are contained in a Unit of the Denomination which is given, and the Product is the Answer.

Example 1.] In 476 Pounds, how many Farthings?
476 Pounds
960 The Farthings in 1 Multiply 5

2856 4184

456960 Farthings for Answer.

Exemple 2. In 87 Hundred Weight, how many Pounds?

87 Hundred
112 Pounds in one Hundred Multiply

174 87

27 11: 1: 9744 Pounds for Aniwer.

Example 3.] In 527 Ells Flemish, how many Quarters of a Yard, each Ell being three Quarters of a Yard?

527 Elis 3 Quarters of a Yard in an Ell

1581 Quarters of a Yard for Answer.

Example 4. ] In 228 Bales of Dowlass, how many Pieces ?

328 Bales

percia 173 Pieces in a Bales Multiply derivation in a 2 of the control of the control

984 Pitcestor Antwerp to the Late Care Cape La

H :

Example

Example 5.] In 484 Groß of Tape, each Groß 12 Dozen, each Dozen 2 Pieces, and each Piece 36 Yards, how many Yards?

484 Gross
12 Dozen in a Gross Multiply

968

484

5808 Dozen in 484 Groß Mukipiy

11616 40656

418176 Yards for Answer,

Case 2. ] When it is required to reduce Numbers of divers Denominations into the lowest Denomination.

Rule.] Work as in the last Case; but if you have any Number of the next inferior Denomination to that you are reducing, add such Number to the Product.

Example 1.] In 3641. 51. 5d. how many Pence?

20: The Shillings in a Pound Multiply and add the 5s.

7285 Shillings in 364: 5: Multiply and add the 5 d.

1457*9* 7284

87425 Pence in 364: 05: 5: For Answer.

In the last Example in reducing the pounds, say, (0) time 4 (in the pounds) is (0) but 5 (in the shillings) is 5 shillings; then say, 2 times 4 is 8,6%. And when you come to the shillings, say, 2 times 5 shillings is 10, and 5 in the Pence place is 15 pence, put down 5,

and carry 1, &c. Note, that if you had any thing in the Ten's place, either in the shillings; or pelice, you mult aid them when you multiply by the Figure in the Ten's place of the Multiplier.

```
Example 2. ] In 481. 17 1. 21 d. 24. how many Parthings?
                                Multiply and add 17 i.
  30: The shillings in a pound
977 Shillings in 48:
                         17:
                                Multiply, adding the 11 d.
  12 Pence in a shilling
 1955
.978
11735 Pence in 48: 17: 11:
                                 -Multiply <del>and ad</del>d 2
     4 Farthings in a Penny
```

Example 3. ] in 47 C. 2. 21. 24th how many Pounds?..

46942 Farthings in 48: 17: 111 For Auswer.

4 Quarters is 112 fb \ Multiply and add the 2 2rs.

190 Quarter in 47: 2: Multiply and add the 24 18

1524 **482** 

1344 Pounds in 47: 2: 24: For Answer.

This Question is more briefly resolved, as in the Margent, by first putting down your 47 C. 4 times, and the 2 2 24 16. which is 80 16. , 470, in Ten's and Unit's place, to the Summ in the 474 Answer.

5344 th Answer.

9. 2. Rs-

# S. 3. Reduction Ascending.

To reduce Numbers from a lesser to a greater Denomination.

Cafe 1. ] When the Number given is to be reduced to the next

Superiour Denomination.

Rule. ] Divide the faid given Number by luch a Number of Unica of the Denomination given, as makes a Unit of the next superiour Denomination, and the Quotient is the Answer.

Example 1. In 984 Pieses of Dowlass, how many Bales, each 2 Pieces? See the Operation.

3) 984 (328 Bales for Answer.

Example 2. In 9744 Pounds, how many Hundreds ? 112) 9744 (87 Hundred for Answer.

Cese 2. ] When a Number is to be reduced to a Denomination

higher than the next superiour Denomination.

Rule. ] Divide the given Number, as before, by such a Number of Units of the Denomination given, as makes a Unit of the next higher Denomination, and note the Remainer. Then divide that Quotient by so many Units of that Name or Denomination, which it is of, as makes a Unit of the next higher Denomination to the Said Quotient, &c. noting the Remainers, as in the Examples following.

•	A	eduction	Afeend	ing.	55.
Example 1,	] In 874	25 Pence,	how many,	Shilli <mark>ngs a</mark> n	d Pounds?
12)	d. 87425	(72 <b>8</b>  5 (	7. 3 <b>64</b>	• • •	
`	.14	12			,
	102	8 Amfi	li ver 364;	05: 05	<b>*</b>
- '	63	05 1. Re	m.		
	5 d.	Remains		· (3)	
Example 2.	] In 5.34	is, how	many Qua	irters, and	Hundreds?
•	16.	2. C.		• •	
<b>28</b> )	5344	(190. (4 <u>.7</u> ); ••		•	
	254	30		• _	
Rem.	(lb. 24	2. Qua	ters remain	1 1 <b>3.</b>	e 12k }
			Anfw	G: 2 (cr. 47 : 2	2. 18:
Example 3	7 In 418	176 Yard	how man	ry Grals of	Tepro-
Divide the	given No	imber by 7	2. and the	t Quetient	by 13; for
; ;	Yards	Dozens	•	C.	÷
72)	418176	( 5808 12),	(484, Grol	s for Answ	thi. Out
••	481	Poo	• •	- t i c	
<u> </u>	5.76	48	(	(i)	· i

These Questions are the Converse of those in Reduction Deleand ing, and may serve for the Proof of them; and liberate to how the Leasner the Mature and listents of the Rules.

o Rem. o Reme

\$ 4. Re-

# Reduction Afcoming and Descending:

S. 4. Reduttion Ascending and Descending.

Questions performed by Multiplication and Division, are these that follow; and such like.

Example 1. ] In 874 Ells Flemish, how many Ells English?

Multiply the given Number by 2, and divide the Product by 5, and the Quotient is the Answer.

874 Elis Flemith 3 Quarters of a Yand in x Ell Multiply

5) 2622 (5243 Ells English for Answer.

12 Anf. 574 4 or to or 3 22

2 Rem. Which placed over the Divisor, is 3.

Or Multiply by 6, and Divide by 10; which is more brief. Note, That the Remainer is always of the same Denomination with the Dividend.

campaigle 2: I to 46 C. of Cotton Wool, how many Pounds; and what the Price, at 15 d. a Pound? Aniwer 222 l.

46C	(77280	(644)0	(322
46	52	20)	
5152 Pound 15 Pence for 1 Pound Multip.	48	. 4	•
Re	mains o	o R	lem.

25760

Practitor Answer: which reduce into Paucie ranght, and gen Mangent. -- A . 45 )

Example

Reduction Ascending and Descending. 57

Example 2. In 846 Dollars, each 4s. 6d. how many Pounds

Sterling?

846 Dollars
54 Pence per Dollar Multiply

3284
4230

12) 45684d. (280,7 (190: 7)

96 18

84 07 Remains.

6 Remains.

6 Remains.

6 Remains.

6 Remains.

Example 4. ] To reduce Flemish Money into English.
In 465 l. 12 s. 4d. Flemish, how many pounds Sterling, at 33 s.
4 d. Flemish, for 1 pound Sterling? Ans. 279 l. 8 s. Sterling.
Rule. ] Divide the pence in 465 l. 13 s. 4d. by the pence, in
22 s: 4 d. and the Quotient is the Answer. See the Work.

1. d.

33 4 465 13 4

12 20

9313 Shill. Flem.

12

4,00) 1117/60 (2791. Sterl.

160 l. Steel, sem. Multiply

400) 32 00 (8 % SterL

# 8 Reduction Ascending and Descending,

Thus you may reduce Flemish Money into English; let the price of a pound Sterling be reckoned any other Number of shillings, or shillings and pence Flemish; but when the price is as above (which is the true Value) you may perform the same by Multiplying the given Number by 3, and Dividing the Product by 5; for 400 Flemish 5) 1397: 00: 00 pence is to 240 Sterling pence, or as 5 is

Sterl. 279: 08: 00 Ans.

Note, That French Livers, Soulze and Deniers are reduced into Deniers (or Pence) as the English and Dutch Money is, by Multiplying by 20 and 12.

Example 5.] In 364 French Crowns, each 544d. Sterling, how many pounds, shillings and pence Sterling?

Rule.] Multiply the given Crowns by 54 d. and the Product is 19656 d. to which add \$\frac{1}{2}\$ of 264 for the farthing, and the Summ is 19747 d. or 82 l. 51. 7 d. Sterling for Answer. But you will find a briefer way of performing these and such-like Questions by the Rules of Practice, which will be of great use in Casting up French Bills of Exchange.

Example 6. ] In 1500 Pieces of Eight Mexico, each 521d. Ster-

Rule.] Multiply the 1500 by 52, and the Product is 78000 pence, then for the 3 multiply the 1500 by 3, and divide the Product by 8, and the Quotient is 562 d. which add to the 78000 d. and you have the Answer 785622d. Sterling, or 327 l. 61. 101d. And this Rule is very useful in Casting up Bills of Exchange to Cadiz, Legbern and Genoa: but may be something more briefly performed, as may all the rest, by Decimals, or the Rules of Practice.

Example 7. ] In 2900 Ducats, each Aid. Sterling, how many pounds, shillings and pence Sterling?

Rule.] Multiply 2900 by 91, and the Product is 147900: Then multiply 2900 by 7, and divide the Product by 8, and the Quotient is 2537½. which added to the 147900, the Summ is 150437½. Sterling, or 626!. 161. 5½. This Example you will find useful in Casting up Exchanges to Venice.

Example.

Example 8. ] In 2600 Millrees, each 6 s. 82d. how many pounds Sterling?

Rule.] Divide 2000 by 3, (because 2 six Shillings and eight Pence make one pound Sterling) and the Quotient is pounds; to which add the pounds in 2000 half-pence, as 4 l- 3 s. 4 d. to 666 l. 13 s. 4 d. and the Summ is 670 l. 16 s. 8 d. for Answer; which Rule is useful in Casting up Bills of Exchange from Operto, or Lisbon in Pertugal. But if the Price of a Millree, in the Course of Exchange, be reckoned any other Number of Shillings and Pence, you may work either by the Rules of Practice following, or reduce the Value of a Millree into its lowest Denomination, and reduce the Product of the Millrees thereby, into Pounds.

Example 9.] In 758 Gilders 18 Stivers, how many pounds Sterling at the Rate of 22 s. 20 d. Flemish per pound Sterling?

Rule. ] Reduce the Gilders and Stivers into Stivers: Then reduce the Flemish Shillings and Pence into Stivers, by multiplying by 6 the Stivers in a Shilling Flemish, and adding 5 for the 10 pence (there being 2 pence Flemish in 1 Stiver) and then divide as in the Work following.

Note, That if the Pence in the Exchange had been an odd Nameber, (as the 10 had been 9) then multiply 23 by 12, and add the 09, which reduces the 33: 09 into Flemish pence, viz. 405; and then you must in this Case double 15178, and so divide 30236 by 405.

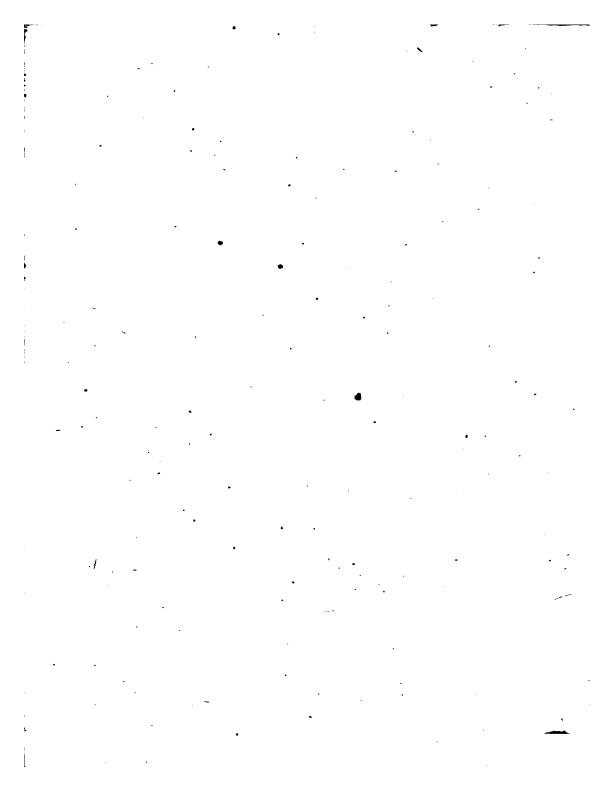
Note, This is a useful Example to such as Trade to Holland, where Accounts are kept in Gilders and Stivers, but the Exchange is in Flemish Shillings and Pence.

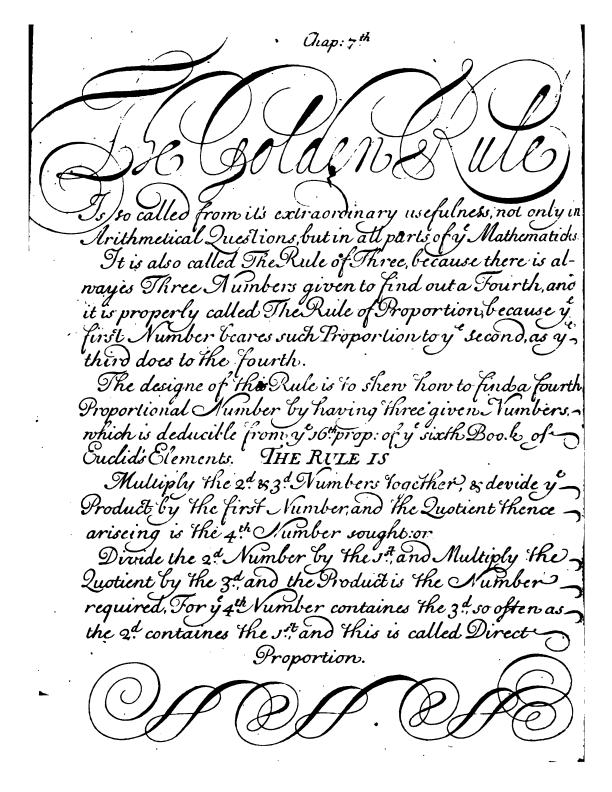
See the Operation following:

# 60 Reduction Ascending and Descending.

33 s. 10 d. Flemish 6 Scivers per Shill.		G. 758: 20	<i>Sti.</i> 18	•	
203 Stivers.	203)	15178	Sti <b>vers.</b>	(741. St	erliog.
		968	_		•
	•	156	red Poul	nds Engl	4,39
	203)	3120	(15 Sh	ill, Sterl	
•	·	1090 75	Shill. re	<b>n.</b>	
,	20	-	(4 Pen		
	203	4	(1 Far		:

So the Answer is 1.74 15 4 1147





# Chap. 7. The Single Rule of Direct Proportion. 61

A LL the Difficulties in this Rule, confifteth in the right stating the three Numbers given: for when you have done that, you have only Multiplication and Division, and the Work is performed: The Rule therefore for stating any Question in this kind of proportion is,

Rule. ] Consider that of the three Numbers given, you have al-

ways two of one Denomination: And,

That Number which is of another Denomination, must be asways put in the second place: and to the Lest-hand thereof must be placed that Number (of the two of one Denomination) on which the second has dependance, and the other Number must be placed next the Right-hand. As supposing it were required to know what the Interest of 75 pounds is at the rate of 8 Pound per Cent. per Annum, the Numbers will be stated thus:

> L. prin. L. int. L. prin. 200. 8:: 75.

In this Example there are two Numbers that are Principal Money, and one that is Interest: therefore the Interest (according to the Rule) must stand in the Middle, or Second Place; the Principal on which the Interest dependent, viz. 100 (8 l, being the Interest thereof) must stand in the first Place toward the Lest hand, and the other Principal on which the sourch Number (which is the Number sought for) dependent, must possess the first Place toward the Right-hand.

By these Rules foregoing, you may with ease and certainty perform any Operation in Direct Proportion, and for your farther Information take the Examples following.

Example 1.] If the Interest of 1001, for one Year be \$1, what is the Interest of 75 Pound for the same time?

L. P. L. I. L. P.
100: 8:: 75
8
100) 6|00 (61. Fer Answer.

. Exemple

64 The Single Rule of Direct Proportion.

Note, That when you have multiplied the 2d and 3d Numbers together, and divided the Product by the ift, the Quotient is of the same Denomination, as the 2d Number is; after you have reduced it (as in the last Example) into its lowest Denomination given.

Example 2.7 If 4C. 1 2. 24th of Sugar cost 141. What will 18C boft?

14:: 16. 18 2016 th. of Sugar Multiply 500 lb. of Sugar 141. Sterling 8064 5,00) 282 24 (56: 8: 11: 2,55. Answer. 224 Pound remains Multiply 20 Shillings in 145 5100) 44/80 (8 Shillings.

480 Shillings rem. Multiply 12 Pence 96

160 (11 **Pence.** 

260 Pence rem. Multiply

40 Furthings remains to be divided by

Note,

Mote. That (as in the last Example) when any thing remains that is reducible to a lower Denomination; after it is so reduced, it must be divided continually by the first Number.

Case 2. ] When any of the three Numbers given happen to be of

divers Denominations.

Rale.] You may reduce them into the lowest Denomination: And if your first Number require to be reduced, your third must be reduced likewise into the same Denomination as the first: For the first and third Number, before you begin your Operation, must be always of one Name or Denomination.

Example 1.] If 17 Hogsheads of Sugar cost 320 1. 12.1. What:

will & of those Hogshheads be worth ?

```
H-ds.
                ₹ /.
           17: 420: 14: 5
                  20
               6412 Shillings ?
                               Multiply
                   5. H-heads $
          17) 32060 (18815 (94: 5: 10: 25
                         o Remains.
                146
                 100
                  15 Shillings remains \ Multiply
                  12 Pence in a shilling s
                  10: Pence remains & Multiply
                   4 Farthings.
v I bobisio suita) erange, Earthings,
```

6. Farthings remains to be divided by 17.

# 66 The Single Rule of Direct Proportion.

Example 1.] If 40 Pieces of broad Cloth cost 390 1. what will one Piece cost?

Pieces. l. Piece.
40: 520: 1
40) 590 (1441. or 141. 15s. Answer.

19

2 Pounds remains.

Example 2. ] If 14 Hogsheads of Tobacco, prize Nett 9285 lb. cost 6191. 104. what will one pound cost at that Rate?

1b. 1. 4. 1. 1b. Answ. 1: 4: 055

9285) 123901. (1 Shilling.

3105 Shillings rem.

9285) 37360d; (4 Pence.

120 Pence remains.

4

480 Farthings rem. to divide by 92852

### S. 2. The Single Rule of Indired Proportion.

Whereas in the former Section of Direct Proportion, the fourth Number was always proportionably greater than the Third, as the Second was greater than the First: in this kind of proportion, on the contrary, the greater the third Number is, the less is the Fourth, and the less the Third is, the greater is the Fourth; and it is therefore called Indirect or Reverse Proportion.

Aud whereas in the last Section the Product of the First and Fourthis equal to that of the Second and Third; in the proportion I am now treating of, the Product of the Third and Fourth is equal to that of the first and second Numbers; which may serve as a proof

for both.

# The Single Rule of Indirect Proportion.

The Method of flating any Question in this Proportion, is the same with Direct: but to find the Number required, this is the

Rule.] Multiply the first and second Numbers toward the Lest hand together, and divide the Product by the Third, and the Quotient arising is the Answer.

A Rule to know whether a Question proposed be to be answered by the Rule of Proportion, Direct or Indirect.

Having flated the three-Numbers given as is formerly directed, calling the middle Number the mean; and the two outmost Numbers, the extreams: Consider from the Nature of the Question, whether the third Number requires more or less than the second Number; if it requires more, the lesser Extream is to be your Divisor; but if the Third requires less, the greater Extream is your Divisor: Now so often as this lesser, and the greater Extream happeneth to be the third Number, or that next the Right-hand, so often is your Proportion Indirect: but when they are the first Number, the Proportion is Direct: an Example or two will make it plain.

Example 1.] If a Board be 9 Inches In. br. broad, how much in length will make 12: a square Foot? Say, if 12 Inches broad require 12 in length, to make a square Foot, what length will 9 Inches broad require? It will require more length, because there is less breadth. See the Work.

9) 144 (16 Inches in length for Anf.

In. br.

long.

Example 2.] How many Yards of Silk 3 Quarters broad, will line 9 Yards of broad Cloth, that is 1 and a half Yards broad?

Say, If 6 Quarters wide or broad require 9 Yards in length, what will 3 Quarters broad require in length?

Qrs.br. Par.long. Qrs. br. 6: 9: 3.

3) 54 (18 Yards in length for Answer.

24

K 2

Er:

## 68 The Double Rule of Direct Proportion.

Example 2.] If when the price of a Bushel of Wheat is 6 s. 3 d. the penny Loaf weigheth 9 \( \frac{3}{3} \); what must the penny Loaf weigh, when the price of a Bushel of the same Wheat is 4 s. 6 d \( \frac{3}{4} \) The Question is thus stated,

### S. 3. The Double Rule of Direct Proportion.

In this kind of proportion there are 5 Numbers given to find a fixth, which fixth will bear such proportion to the product made of the fourth and fifth Numbers, as the third Number does to the Product made of the first and second Numbers.

#### The Rule for stating the five Numbers given, is:

Make that the third Number from the Left-hand, which is of the same Denomination with the Number sought; then place the two Numbers in the first and second place to the Left-hand, which are conjunctive in the Sense of the Question to the Third, and the other two Numbers in such Order, that the Fourth may be of the same Denomination with the first, and the Fifth of the same with the Second: which done,

Rule. ] Divide the Product of the three next the Right-hand, multiplied one in another, by the Product of the two next the Left-hand, and the Quotient is the fixth Number fought for.

Example

# The Double Rule of Indirect Proportion. 69

Example. ] If 100 l. in Twelve Month's gain 6 l. what will 500 l. gain in Eight Months?

By the Work you may perceive that 500 l. will gain 20 l. in 8 Months, at the Rate of 100 l. Principle, gaining 6 l. Interest in 12 Months

This Question, or any other of this Nature, may be refolved at two single Rules of Proportion, thus: If 100/. require 6/. what will 500/. require? the Answer is 30/. Then say, if 12 Months require 30/. what will 8 Months require? the Answer (as before) is 20/.

## S. 4. The Double Rule of Indirect Proportion.

#### The Rule for flating your Question.

Place the three first Numbers toward the Lest-hand in the same Order you did in the last Section; and for the other Two, place that the Fourth, which is of the same Denomination with your Second Number, and consequently the other next the Right-hand: So will your first and last, viz. that required be of one Denomination, your second and sourth of another, and your third and lists of another. And,

#### The Rule for performing the Operation, is ;

Divide the Product of the first, multiplied in the second, and there Product in the fifth, by the Product made of the third and fourth, and the Quotient is the Answer.

ilı 🚬

# 70 The Double Rule of Indirect Proportion.

Example. ] What Principal will raise 201, in Eight Months at 6.per Cent, per Annum?

L. prin. Month. L int. Month. L. int.

100: 12: 6: 8: 20

12 8

1200 48 - Your Divisor.

\_\_ L. prin.

48) 24000 (500 Quotient for Answer; which proves the last Operation.

o Remains.

# S. 5. The Reason and Demonstration of the Single Rule of Direct Proportion.

If 4 Numbers are Geometrically proportional, the Rectangle or Product made of the Means, is equal to that of the two Extreams from Euclid. lib. 6, prop. 16. from which I shall prove the Method for finding the fourth Proportional.

Example. Admit 4 is in proportion to 12, 88 18 is to a fourth Number unknown; for which put (4,) they will fland thus;

#### 4 12:: 18. #

Number; then from the fore-mentioned Proposition,

#### 4 # - 216

1. i. e. Four times a (which represents the unknown Number) the Product of the first and fourth is equal to 12 times 18, viz. 216, the Product of the two Means: then it necessarily follows;

are the area of the first and the second

3. i. e. That (a) is equal to 216, divided by 4; for if 4 Tines (a) is equal to 216, then one Time (a) must be equal to one fourth part of 216: And,

<sup>216</sup> - 194 .

part of 216, and that 1 part of 216 is equal to 94, therefore (n) is equal to 94, therefore (n) is equal

# The Demonstration of Single Direct Proportion. 7.1

equal to 54, which is the fourth Number fought; and if you compare the several Supe, you will find the fourth Number to be discovered after the same Method given for finding it, at the beginning of this Chapter, which is by multiplying the second and third Numbers together, and dividing the Product by the First.

Or thus, from this Axiom.

That the Fourth Number containeth the Third so often as the Second does the First.

Hence  $\frac{12}{8} = \frac{\pi}{18}$  that is  $\frac{1}{4}$  of 12 is equal to one 18th of (a).

Now 12 - 3 therefore 75 - 3.

i. e. Twelve divided by 4, is equal to 3; therefore a divided by 38 must be equal to 3.

And if  $\frac{n}{18} = 3$  then  $2 \times 18 = n$ 

oi. e. If a divided by 18 is equal to 3, then 3 times 18 must be equal to a, and consequently (a) is equal to 54, for 3, times 18 is 34, as before.

# 3. 6. The Demonstration of the Single Rule of Indirect. Proportion.

By the Definition of this Rule in Section the second foregoing the Product of the first and second Numbers, is squal to that of the Third and Fourth: from whence this Demonstration.

6: 9: 3: N.

Therefore by the Definition.

 $6 \times 9 = 3 \times 11, \text{ or }$ 

54 - 3 ×,

i.e. The Rectangle of the two first Numbers 6 by 9, is equal to that of n by 3.

Now if  $54 = 3 n, n = \frac{9}{4}$ .

i.e. If 54 is equal to three Times (x), then it follows that one: Time (\*) is equal to one third part of 54;

\*\* - 18 Therefore # - 18

i. e. One third of 54, being 18, therefore n is equal to 18, which was required.

# 72 The Proof of the Rules of Proportion.

By the time Rules may the double Rules of Proportion be demonitrated; but this Book being chiefly designed for the practice of young Merchants; my intended brevity in things speculative requireth, that I pass forward to what is more practically Useful.

# S. 7. The Proof of the Rules of Proportion.

Every kind of Proportion I have discourfed of, may have the Operations proved two Ways.

#### Case I. ] Single Direct Proportion.

When four Numbers are in a direct proportion, the Product made of the First and Fourth, is equal to the of the Second and Third; otherwise the Work is not sightly performed.

2dly. The second way is thus: As the sourth Number is to the Third, so is the Second to the First; otherwise the Work is not

right.

When four Numbers are in an Indirect Proportion; the Reckangle of the First and Second, is equal to that of the Third and Fourth; otherwise there is an Error in the Work.

radly, Thus: As the First to the Third, so is the fourth Number to the Second in a Direct proportion; otherwise the Operation is not rightly performed.

#### Cafe 3.] Double Direct Proportion.

When a fixth Number is found in double Direct proportion; the Rectangle of the First, Second and Sixth, is equal to that of the Third, Fourth and Fifth Numbers, if the Work is not Erroneous.

2 dly, Thus: As the Product of the fourth and fifth Numbers is to the Sixth; fo is the Product of the First and Second to the Third in a single Direct proportion.

## . Case 4.] Double Indired Propertion.

When five Numbers are given, and a Sixth found in an Indirect or Reverse proportion, the Rectangle (provided the Work is stated by the Rules foregoing in the fourth Section of this Chapter) of the First, Second and Fifth, is equal to that of the Third, Fourth and Sixth Numbers, if the Work is right performed,

2dly, Thus: As the fifth Number is to the Product of the Third and Fourth, so is the Sixth to the Product made of the First and

Second, by one single Direct proportion.

CHAP.



A short way of Casting up all Sorts of Merchandises The even pu of a l Sterl 9 -15 Cofa dut of sa Ow. The even pro -0/4 a &w!

## CHAP VIII.

## Of Fractions.

### S. 1. Notation and Numeration of Vulgar Fractions.

A. Fraction is one of more parts of a Unit or Integer, according as the same is divided.

2. Every Fraction confisheth of two parts, viz a Numerator and

a Denominator.

- 3. The Denominator is placed (in Writing) below the line which you write in, and sheweth how many parts the Integer, or Unit, is divided into.
- 4. The Numerator of a Fraction is (in Writing) placed above the line, and sheweth how many of the said parts, expressed by the Denominator, are contained in the Fraction: For instance:
  - 2 Numerator.
  - 4 Denominator.
- 5. In reading Fractions, the Numerator is first mentioned, then the Denominator; as the Fraction above is read, three fourth parts of any thing: i.e. The Denominator sheweth, that the Integer is divided into four parts; and the Numerator, that three of those fourth parts are contained in the Fraction: So by the same Reason

is one Fourth Part,
is one half, or two Fourth Parts,
is two Third Parts,
is five Sixth Parts, &c. As in the following Table.

One Half, &c. is \$\frac{1}{2}\$, \$\fr

So in the line below, the whole line a b being a Unit, divided into 18 equal parts: the line a b is 11, the line a b is 11, Ec.

	. <u>d</u>	<u> </u>		•	m	
			1			. •
Æ	1 2 3 4 5 6	7 8	9	10 11 12 1	3 14 15 16 17.18	Ь

## 74. Reduction of Vulgar Fractions.

6. Fractions are either proper or improper.

7. A Fraction properly so called, or a proper Fraction, is when the Numerator is less than the Denominator, as the Fractions foregoing.

8. An improper Fraction is when the Numerator is greater than

the Denominator; as 7, 28, &c. Again,

9. Fractions are either simple or Compound.

10. A Simple Fraction is when the Fraction is immediately the Fraction of a Unit or Integer; as those foregoing in the Table, &c.

11. A Compound Fraction is a Fraction of a Fraction, as  $\frac{1}{2}$  of  $\frac{1}{4}$  of a Pound Sterling, which is equal to 21. 6 d. or it is when a Unit is divided into any Number of parts, and each of those parts are againfubdivided into parts; these last parts are Compound Fractions, being the Fractions of the Fractions of a Unit. So the whole line  $(r \cdot s)$  being a Unit, the line  $r \cdot 1$ , is  $\frac{1}{3}$ ,  $r \cdot 2$ , is  $\frac{2}{3}$ , because the Unit is divided into sive parts; which sive parts being each subdivided into 4 parts, as under the line: I say,

each of these last Parts are Fractions of a sisth Part; so the line rq is  $\frac{1}{2}$  of  $\frac{1}{3}$  of the line rs; the line rs; is  $\frac{1}{4}$  of  $\frac{1}{3}$  of it, cc.

## S. 2. Reduction of Vulgar Fractions.

It may seem strange to some, that Reduction is here taught before Addition &c. but 'tis necessary it should be so, because Reduction is made use of in all the subsequent Rules; to sit and prepare. Practions for Addition, Substraction, &c.

Cafe 1.] When a mixt Number is given to be reduced to an.

improper Fraction,

Rule.] Multiply the Integers by the Denominator of the Fraction, and to the Product add the Numerator, and place the Summ over the Denominator for a new Fraction.

Example. Reduce 123 to an improper Fraction: Seethe Marginal Operation,

Auf. 5

### The Reason of this Rule.

If the Numerator and Denominator of a Fraction be alike, the Value thereof must be a Unit; so that if you assign a Denominator to any whole Number that shall be reduced to an improper Fraction, your Numerator must be the Product of the whole Number by that Denominator. Thus I being reduced to such Fraction, whose Denominator is 2; 2 times I is the Numerator, and 2 the Denominator, which is \(\frac{1}{2}\) (or I;) Because, according to the Desinition in the 5th Step of the last Section, the Unit is divided into two parts, and there are two of those parts in the Fraction; and as many Units as there are in the Integral part, so many times the Denominator must the Numerator be; because I is \(\frac{1}{2}\), and \(\frac{1}{2}\), and condition of the Integral part of the mixt Number, shuft be added to the Numerator of the Practional part, for the Reason mentioned in Addition of Vulgar Fractions.

Case 2 ]' When an improper Fraction is given to be reduced to

a whole or mixt Number.

Rule.] Divide the Numerator of the Fraction by the Denominator, and the Quotient is a whole Number; and if any thing remain, it must be placed over the Divisor.

Example. ] Reduce it to a whole or mixt Number.

4) 51 (124 Answer, which proves the last Case

TI

# 3 Remains.

#### The Reason of this Rule, is;

That so often as the Denominator can be had in the Numerator, so many Units doth the Fractions contain, for  $\frac{1}{4}$  is  $\frac{1}{4}$  is  $\frac{1}{4}$ , as  $\frac{1}{4}$  said before, is a Unit or One.

Case 3.] When Fractions have different Denominators, and are

to be reduced to a common Denominator.

Rule.] Multiply the Numerator of each Fraction singly, into all the Denominators of the Fractions given, excepting its own, and the Product is a new Numerator; and if you multiply all the Denominators one in another, the Product is a common Denominator.

. 2:

Exam.

Example ] Reduce 1, 1 and 4 to a common Denominator. Thirdly 5 The Namer, of the 2d 3 Mult, 2 The first Numerator. 4. The Denom. of the 2d S 4 The fecond Denominator. 20 The Product. 8 Product. 3 TheDenom.of the 1st Mult. \ Multip 7 The third Denom. 60 The 1d. new Mumerator. 46 The first new Numerator. Lastly, 3 The Numerator of the 2d. Multip. 3 The Denominat of the 1st. Denominators.

9 The Product

7 The Denom. of the 2d..

62 The 2d. new Numerator.

Multip.

84 The common Denominator.'

Now if you place each new Numerator over the common Denominator, you will have

( The first Fraction given. The second Fraction. ( The third Fraction,

### The Reason of this Rule.

Since the end of this Rule is to make the Denominators alike, and the Numerators proportion d thereto, as those given are in proportion; If therefore the Denominators are multiplied by any Numbers that will make the Products alike; and if the respective Numerator be multiplied by the same Number you multiplied its Denominator, it will produce the same thing as this Rule produceth: As if I would reduce \(\frac{1}{2}\) and \(\frac{1}{2}\) to a common Denominator; if I multiply the Denominator 3, by 8, and the Denominator 4, by 6, the Products will be each 24 for a common Denominator; and it the Numerator 2, be multiplied by the said 8, and the 2 by the 6, the Products will be 16 and 18; so the Fractions in a common Denominator are 15 and 13 equal to 15 and 15, which would have been produced by the foregoing Rule. But fince it would in some Cases be tedious to find out Numbers, that, multiplying the several Denominators. nominators, would produce a common Denominator; it is therefore the most certain way of performing the same, to multiply the Denominators one in another for a common Denominator, as in the Instance last above, of † and ‡, the 3 x by the 4, and the 4 by the 3, must produce each 12 for a common Denominator; and if you multiply, as before, each Numerator by the Number you multiplied its Denominator, the Products are new Numerators, proportioned to the common Denominator; as the several Numerators given are proportion'd to their respective Denominators.

Case 4. 1 To reduce a Fraction into its lowest Term.

Rale. ] Take 1, 1, or 1, oc. of the Numerator and Denominator.

Example. ] Reduce 14 to its lowest Term.

Say half of 56 is 28, and  $\frac{1}{2}$  of 84 is 42, then  $\frac{1}{2}$  28 is 14, and  $\frac{1}{2}$  42 is 21; and because you cannot take half  $\frac{1}{27}$ , make trial if you can take  $\frac{1}{2}$ ,  $O(\tau)$ . but since you can only take  $\frac{1}{2}$  of both; say, the Sevens in 14 is 2, and the 7 in 21 is 2, so is the given Fraction equivalent to  $\frac{1}{2}$  and proves the sirst Fraction in the last Case to be right: See the Work.

## The Reason of the last Rule.

By the Lemma to the 16th Prop. of the 5th Book of Euclid. Elem. Two Numbers, howfoever different, if they are divided by one and the same Number, the Quotients will have like proportion one to another, as the Numbers given to be divided have to each other: As  $\frac{1}{1000}$  is equal to  $\frac{1}{1000}$ ; Because if 100 the Numerator be divided by 100, the Quotient is 1; and 1000 the Denominator, divided by 100, the Quotient is 10; which  $\frac{1}{1000}$  is equal to  $\frac{1}{10000}$ ; because as 100 is to 1000, so is 1 to 10; for 100 x 10 = 1000 x 1.

There are other Rules for the performing the Work of the last Case, as thus: Divide the Denominator by the Numerator, and the last Divisor by the Remainer, and continue to do so till nothing remain, and then your last Divisor will divide both the Numerator and Denominator without Remainers, and teduce the Praction to the lowest Term; as in 11/2, if you divide 168 by 112, there will remain 56, by which if you divide your last Divisor 112, there will (o) remain; therefore the Numerator and Denominator divided by 56, reduceth your Fraction to its lowest Term.

Case 5.] To reduce a compound Fraction to a Simple one, equi-

valent to the Compound.

Rule.] Multiply all the Numerators one in another, for the Numerator of the Answer, and the Denominators one in another, fur that of the Answer.

**Example.** Reduce  $\frac{1}{4}$  of  $\frac{1}{12}$  of  $\frac{1}{12}$  into a simple Fraction.

The Product of the Denominators 4, 12, and 20, is 960, and the Product of 1, 1 and 1 is 1; so the simple Fraction sought for is == 5.

### The Reason of the Last Rule.

By the Definition of a compound Fraction in the first Session of this Chapter, it is shewed, that such a Fraction is nothing but the Subdivision of the parts of a Unit; where, for instance, you have a Line suppos'd a Unit divided into 5 parrs, which represents the Denominator of that part of a comp. Fraction always next the Righthand in reading thereof; each of which & parts being again divided into 4 parts, 4 is the Denominator of that part of a comp. Fraction next the Left hand; each of which parts being \( \frac{1}{2} \) of the Unit (or whole Line) shews that there are 20 such parts as that 4th, in the Line; which is the Reason why we always multiply the Denominators together (as 4 and 5) to reduce the Fraction of a Fraction into the Fraction of a Unit, or a Compound to a Simple, which is all one. And the Reason of multiplying the Numerators stogether, (as in 2 of 7 of the last foregoing Line,) is because 3 of \(\frac{1}{2}\) (as \(r\) u) is but one half of \(\frac{1}{2}\) of \(\frac{1}{2}\), therefore \(\frac{1}{2}\) of \(\frac{1}{2}\) must be 2 times (r, n) equal to (r, b) or  $\frac{6}{2}$  of the Line (r, s) for that which before the Subdivision of the Line, was ; is (now the whole Line is divided into 20) 30 fo that \frac{3}{4} of 30 is equal to 30, and confequently 2 times 12 is 15 which plainly shews why the Denominators of compound Fractions are multiplied together for that of a simple Fraction, and the Numerators are likewise multiplied together for the Numerator of the same Fraction.

Case 6.] To find the Value of any Fraction, whether the same

be of Coin, Measure, Weight, &c.

Rule.] Multiply the Numerator of the Fraction by such a Number of Units of the next inserior Denomination, as is equal to a Unit of the Denomination the Fraction is part of, and divide the Product by the Denominator, so the Quotient will Answer your Question; but if any thing remain, reduce that to the next lower Denomination, and divide as before.

Example. ] What is the Value of 144 of a Hundred Weight? See the Operation.

> 134 Hundred 4 Quarters of a Hundred Multiply.

r46) 536 (3 Quarters of a Hundred

98 Quarters remains . 28 Pound in a Quarter Multiply

784 196

146) 2744 (18 Pound:

1184

116 Pounds remain 16 Ounces in a Pound

696 116

146) 1856 (12. Ounces.

104 Ounces remains 16 Drams in 1 Ounce

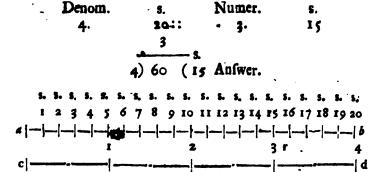
624 104

146) 1664 (11 Drams ..

204

#### The Reason of the last Rule.

The Reason of this Rule is plain: for suppose a Line, divided into 20 parts, the whole Line, as (ab) will represent 1 pound, and the 20 parts 20 shillings. Now suppose there is a Fraction given, of which you will find the Value as \( \frac{1}{2} \) of a pound Sterling: Draw another right Line of the same length with the former, and parallel thereto, as (cd) which divide (according to the Definition of a Fraction) into \( \frac{1}{2} \) parts, to represent your Denominator; and right against \( \frac{1}{2} \) of those parts in this Line shall stand \( \frac{1}{2} \) in the Line of shillings: which shews, that \( \frac{1}{2} \) of a pound Sterling is \( \frac{1}{2} \). and the same may be said of any other Fraction; for as \( \frac{1}{2} \) (the whole Line \( cd \), or Denominator of the Fraction given) is in proportion to \( \frac{1}{2} \). (the whole Line) (ab): so is \( \frac{1}{2} \) the Numerator or Number of parts in the Fraction given (as in the lower Line) (cr) to \( \frac{1}{2} \). the Value of the said Fraction given: And therefore do you multiply and divide as in the last Rule directed for



Case 7.] To reduce Fractions of a lower Denomination to a higher.

Rule. ] Consider what Denomination your Fraction is of, and how many of that make a Unit of the next, &c. to the Denomination you would have your Fraction reduced to; then work as in the fifth Case of this Chapter.

Example. ] Reduce ? of an Ounce Averdupoize into the Fraction of a Hundred Weight.

Ratio.

Ratio.] 16 Ounces being a Pound, if of an Ounce is if of the of a pound, then I confider that 28 Pound is a Quarter of an Hundred, and that 4 Quarters is one Hundred; therefore if of an Ounce is,

t of rt of thof a Hundred; which by the fifth Cafe

foregoing is rest of a Hundred.

Case 8.] When you would reduce a Fraction of a higher to a

Praction of a lower Denomination.

Rule. ] Reduce the Numerator of the Fraction into that Denomination you would have your Fraction of, and place it over the Denominator given for a new Fraction.

Example. ] Reduce vers of the Hundred into a Fraction of an

Ounce.

Pound Multiply 16 Ounces

672 113

Product 1792 Ounces in the Numerator: so the Answer is 1724; which Praction, in its lowest Term, is 1, and proves the last Case See the Work.

Her 가용 기용 기용 기용 가 Proof, or more brief by dividing the first by 1792, &c. as under Cafe 4.

Rais. ] The Reason of this Rule is grounded upon that of the 6th Case foregoing, (omitting Division by the Denominator:) For in a C. or (112 lb) are 1792 Quances, now supposing the Denominator 1792; 7797 of a C. is just 1/22 of an 3, or 1-Quance: So, by the same reason, the Hundred being, as in the Example, divided into 8960 Barts, rack Part must be less than an Quance; and to know therefore how much less, or what part of an Quance the said 1/22 is, is no more than to see how many times 1792 is contained in 8960; for how much soever 1792, is less than 8960, so much must the Praction want of being a Unit (so here of 12) by the Reason of the Rules no Cases a, and a. So that 1792 being but 1 of 8960, it follows that 1784, is but 1 of an Quance.

# S. 3. Addition.

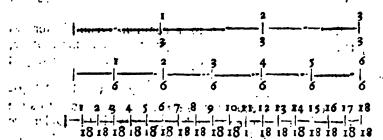
Case 1.] When a simple Fraction is to be added to a Simple.
Rule.] If the Fractions are not in a common Denominator, reduce them to one Denominator, by the third Case of the last Section; then add the Numerators together, and divide the Summi by one Denominator, and the Quotient is the Summ required; and if any thing remain, place it over the Divisor.

Example. ] To \( \frac{2}{3} \) add \( \frac{2}{6} \)
The Fractions in a common Denominator are,

- 12 The first Numerator.
- 15 The Second.
- The Summ, which divided by 18 is 1, 12, or for Answer.

## The Reason of the Rule foregoing.

The Reason why you are first to reduce your Fractions to a common Denominator, before you can know their Summ Total, is, because the Aggregate of most Fractions could otherwise never be discovered; for a Fraction is more or less, according as the Numerator is more or less than its Denominator; so the Numerators are only to be added. Now suppose (as in the foregoing Example) that 3 is to be added to f, in one of these Fractions the Unit is divided into 6 parts, and in the other, into 3 parts; and if I should add the Numerators together, they make 7; but of which of these parts it is not known: But if the Fractions are reduced to a common Denominator, their Numerators will still retain the same proportion to their Denominators; and when the Unit is divided in both Fractions into a like number of parts, the Summ of those parts contained in each Fraction, is the true Aggregate of both Fractions; fo 1 and 2 is 4, 7 and 1 is 12 Or as in the 3 Lines following, which are of equal length, and supposed each a Unit; the istellistided into 2, the 2d into 6 parts, are the Denominators given, and the whird Line is divided into 18 parts (the Product of 3 and 6, ) which is the common Denominator; where right against & (in the uppermost Line) Line) you have  $\frac{1}{12}$  in the lowest Line; and against  $\frac{1}{2}$  in the 2d Line you have  $\frac{1}{2}$  in the lowest; which shews plainly, that  $\frac{1}{2}$  is  $\frac{1}{12}$  and  $\frac{1}{2}$  is  $\frac{1}{12}$ : now the Summ of 12, and 15 parts of the lowest Line is  $\frac{1}{12}$ , or one whole Line and a half; As per Example.



Case 2. 7 When a mixt Number is to be added to a Mixt.

Rule.] Work with the Fractional parts as before, and afterward add the Summ of the Fractions to the Summ of the Integers, and you have your defire.

Example ] To 12, add 743

The Summ of the Fractions by the last Case is 17%, which added to 1 and 74, makes-76, 7%.

Add. Add. 74.

Or you may perform the Work, by reducing the given Numbers to improper Fractions, as in Cose 1. of the last Section; and so proceeding, as in the sirst Case of this Section.

Case 3. ] When a compound Fraction is to be added to a simple.

Rule. ] Reduce the compound Fraction to a simple, by the fifth

Case of the last Section; then find the Summ by the first Case of this Section.

Example ] To 44 add 4 of 4.

The compound Fractions in a simple are, 4, or 4.

The common Denominator of 4 and 437 lb as followed in

The Summ of the Numerators is 102, and of the Fractions 188 for Answer

Γ.ε.η: 3 M.2 5.4 Sn

## S. 4. Substraction.

Caje 1. ] When a simple Fraction is to be deducted from a

Simple:

Rule.] Reduce the Fractions to a common Denominator, as before; then take the Numerator of the Subtrahend from the other, and place the Remainder over the common Denominator, and you

have the difference sought.

The Reason of this Rule is plain from what was said of Addition, as to the common Denominators; and if the Denominators are alike, the difference between their Numerators, is the Difference between the Fractions; as may be proved, by adding that Difference to the Fraction substracted: As, I from \(\frac{1}{4}\), ress.\(\frac{1}{4}\); For \(\frac{1}{4}\) and \(\frac{1}{4}\) is \(\frac{1}{4}\).

Example. From 3, Take 1. See the Works .

36 The first Numerator. 48 The common Denominator.

20 The second Numerator.

16 Difference.

Answer 41 or j.

Case 2.] When a compound Fraction is to be deducted from a Simple.

Rule. ] Reduce the compound Fraction to a Simple, by the fifth Case of Section 2. then work as in the last Case.

Example. ] Brom 12. take 1 of 12.
The compound Fraction in a Simple is 14.

13	16	,. 27
37	14	14
71.	64	108
26	16	27

351-The 1st. Numer. 224-The 2d. Numer. 378-The com. D. 224 Deduct.

127 Remains.

So the Answer is 3%.

Case 3.] When a limple Fraction is to be deducted from whole Number.

Rule. Deduct the Numerator from the Denominator, and place the Remainer over the Denominator; then deduct I from the Integer, and place the Remainer before the remaining Fraction, and you have the Answer.

Example. ] From 12, take ! The Answer is 11

#### Or thus:

According to the Rules foregoing, place 1 under the 12, and fo proceed, as in the first Case of this Section; but the first way is the briefer. 

Note, That the I borrowed from the 12 (in the first method is , so that if from you take , there refts !

### mis . . . . S. v. Multiplication to man 14 1 1 3 4 1

Cafe 1 7 When you are to multiply a simple Fraction by

Rule. T Multiply all the Numerators one in another, for the Numerator of the Product, and likewife the Denominators for the Denominator of the Product.

#### Example. Multiply 2 by 1, which Answer 2 or 1.

#### The Reason of Multiplication of Frattions.

The Effect of Multiplication of Practions is different from that estimbolic Muniticers for the Penduck is always last shancher Multiedicandi tha 'ais always greater in the whole Numbers, the former being the Multiplying of the parts into which a Unit is divided, which must needs make the pares produced less than those given; the latter multiplying Units, must weeds augment the Number; the former decitating the parts of a likely to infinite littleness in the Latter anginesting the Number of Units and Jeffritum, Now the Ressom of the Rule is, That if any Fraction be multiply'd by L it produneth the Fraction given; if by hit produceth the Fraction given, etc. So that to multiply \$ by \$, produceth \$ of \$ or \$ = 1, which is Eully explained in the Reason of the Rule to Cofe is Sact. a.

Call 2. When you multiply a whole Number by a Fraction. ! Rule. ] Multiply the Integer by the Numerator of the Fraction, and the Product plac'd over the Denominator is the Answer; which differeth

Division of Unigar Fractions. differeth nothing from the last Case, it you put a Unit under the Integral part, making it like a Fraction. Example.] Multiply 126 by 3, or 126 by 3. Answer 37 or 14, by Case 2. of 4. 2. Case 2. ] When you multiply a simple by a compound Fraction. Rule. Reduce the compound Fraction into a Simple, and work as in Cale 1. of this section. Example ] Multiply 15 by 6 of 3. of bedier bie bie bie ber in eine eine Answen britt entlich ein ar in the force of this Section, but the near way in S. 6. Division. Case 1. ] When you would divide a simple Fraction by a Sim-, ple. Rule. Having places the Dividend and Divisor, as in the whole Nuggotes, multiply, the Numerator of the Divitor, in the Denominator of the Dividend, for the Denominator of the Quotient : And the Denominator of the Divisor, in the Numerator of the Dividend, son the Authorizator of the Austient. Dineminator of the Product. Example. Divide 11 by 1. 1 (10 11) 11 (1 Answer 1 to is one distinction of an exchange of ship Rule ...... 10 10 1 i To make a Praction present in Value; is nothing him to mile Tiply (or wild to him primerator, or to divide or take from its a daidw chi an dicht ha c Denominator. · 2. To make a Fraction left, is to multiply (or add to ) its Deinominator, or to divide or take from its Numerator. 22 Troon there two Anionie the reason of the Rule relater, for Division of vulgar Fractions will appear. Suppose, for inflances is to be divided by 1; if it were divided by 1, the Quotient would · be 1; and therefore, fince it is to be divided by a quarter of s the Oporient must 4 times 3. 4. For both in Fractions and whole Numbers, by flow much less the Value of the Divisor is, by so much more will what of the Quo-

4. For Both in Practions and whose Numbers, by now much less the Value of the Divisor is, by so wuch more will shat of the Quotient be; which is therefore in this Example, according to the first Axiom 13; and shows plainly, why the Numerator of the Dividend

is multiplied by the Depominator of the Divisor to produce the Numerator of the Quotient; whose Denominator is always the same with the Division so often as a is the Numerator of the Divisor.

3. But if the 3 be divided by 3, then the Quotient will (by the 4th Step) be but a 3d of the last Quote; viz. of 12, because 4 (this Divisor) is three times as much as the Divisor 1.

6. The most natural way therefore to divide by 3, is to take a 3d of the Numerator of the Quotient arising from dividing the fame Fraction by 4, which 3d part is 4 according to the second Axiom.

- 7. But because it would often happen, that the Numerator of the Quotient cannot be divided by the Numerator of the Divisor without a Remainer, which would be more troublesomerand less exact; it is therefore more practicable (fince it produceth the same thing by the ad-Axiom) to multiply the Designature of the Dividend by the Number that you slicult have divided the Numerator of the Quotient, which in this Instance of 12 hogo is 44 by 3, which produce the Antitier of 12 weight the same by the 6th Step; and plainly shews the Reason why the Denominator of the Dividend is multiplied by the Numerator of the Numerator of the Dividend is multiplied by the Numerator of the Dividend is multiplied by the Numerator of the Numerator of the Dividend is multiplied by the Numerator of the Numerator of the Dividend is multiplied by the Numerator of the Numerator of the Dividend is multiplied by the Numerator of the Numerator of the Dividend is multiplied by the Numerator of the Numerator of the Dividend is multiplied by the Numerator of the Numerator of the Dividend is multiplied by the Numerator of the N
  - Case 2.] When you divide a whole Number by a Fraction Rule.] Place a Unit underesties whole Number, and work as in the last.

Example. Divide 54 by 3. See the Operation.

3) 14 (17.1 Answer to 126; which proves the fecond Case of the last Section.

Case 3. ] When you divide a simple Fraction by a Compound.

Rule. ] Reduce the Compound to a simple Fraction, and Work
as in Case the first.

Example.] Divide if by for f. The compound Fraction is if.

Having in the two last Sections the wed the way of multiplying and dividing Fractions, it would be needless to say any thing of the local third first the wait posting in it but what has been alreanished by the fractional many indeed of whole humbers.

way, inflead of whole Numbers and R of the not again to the

That the Denominator of a decimal Frection is either to, or fome power of 10, viz. 100, 1000, 10000, or fo that the Denominator is easily known without expressing it; for in a decimal Frection there is a point or prick toward the Left hand of the Numerator, which point alway possesses the like place, as the first Figure toward the Left hand would if it were to be wrote down: Thus is it the point being in the Ten's place, and therefore denotes the Denominator to be 10; is is 12; is is 125; is is 1964; is

Proportion.

in proportion to its Numerator.

dod war Sain i opan fall of the Decimal, who he Denominator

chi to the first report to the Decimal, whole Desominator is 10000, &c.

Example.] What is in a decimal Fraction: See the Operation:

aite e whan n**g a**pp**art sa 1905** ce I

8) 1000 (424 Answer.

20

40

But because it sometimes happens that a Cypher or more is to policis the 1, 2, &c. Places of the Decimal coward the Less Hand, therefore take this

Rule.] As tisny Cyphers as you have in the third Number of the 2 in proportion as above; no thing places much you prack of in the Quotient toward the Right-likit.

Exam-

Example.] How is 9 d. expressed in the Decimal of a Pound

Sterling?

Rule. ] Consider that in a Pound are 240 Pence; therefore 9 d. is 17% l. in a vulgar Fraction by the seventh Case of Section the Second foregoing, for 9 d. is 1% of 1% of a Pound.

Then say as in the last Example.

240: 9:: 10000 9 /. 24|0) 9000|0 (.0375 Answ.

In this Example, because I had 4 Cyphers in the third Number, therefore I must prick 4 places off toward the Right-hand the Quotient for Decimals; but because the said Quotient did but consist of 3 places, therefore I supply the sourch to the Lest-hand with a Cypher.

Note, That the greater your third Number is, the nearer do you bring your Decimal to Truth, when any thing happens to remain, as in the Example following; but in most Cases where the Decimal is not to be multiplied by a great Number, it is sufficient that the fourth Number be 1000.

But when you reduce \(\frac{1}{4}\), or \(\frac{1}{2}\), or \(\frac{2}{4}\) to Decimals, or any Number of Shillings to the Decimal of a Pound, it is fufficient in these Cases if your third Number be 100

Example 3.] How is 3 Farthings wrought in the Decimal Fracti-

on of a Pound Sterling?

Work, as you see in the 2. in a th 2rs.

Margent by the Rules giyen in the last Example, and
you will find the Answer to
be .003125, or 3125 Millionth part of a Pound.

Exam-

N

Example 4. ] How is 12 Pounds expressed in the Decimal of 112, or one Hundred?

The vulgar Fraction by the last Examples is The Hundred, therefore the Decimal is .1071, as followeth.

112: 12:: 10000 12 112) 120000 (.1071

160

48 Remains, which is inconfiderable, being less than 18000 of a Unit.

Example 5. ] How is 12 Shillings in the Decimal of a Pound?

In a vulgar Fraction 12 Shillings is 12 /. and in a

Decimal .65 /. thus,

20. .13:: 100 .65

20) 1300 (.65 Answer.

100

o Remains.

Example 6. ] What is 14 s. 6 d. in the Decimal of a Pound?

In 14 s. 6 d. are 174 d. and the Decimal (by the second Example) is .725 l. for

240 : 174 : : 1000 174

240) 174000 (.7251. Answer.

600

o Remains.

Note, That you may by the Rule following, write down any Number of Shillings in the Decimal of a Pound, without any Proportion, or Operation in the Rule of 2, thus;

Rule. If your Shillings are an even Number, half of them is the Decimal of a Pound; but if they are odd, put a Cypher to the Right-hand, and then the half is the Decimal of a Pound.

Thus 141. is .71. 161. is .81. &c. Likewife 131. or 130 is

.65 l. 15 s. or 150 is .75 l. &c.

You may likewise write down any Number of Pence or Farthings in the Decimal of a Pound, without working by the foregoing Rules.

For if you reduce the given Pence into Farthings; and place a Cypher to the Lest-hand, you have the Decimal of a Pound required: but if the said Farthings exceed 14, you may add one (for reason given in the next Case) and another for each 39 Farthings.

Thus 3d. is .012l. 9d. is .037l. 11d. is .046l. &c. Case 2. When it is required to find the Value of any Decimal.

Rule.] Multiply the Decimal given, by fuch a Number of Units of the next inferiour Denomination, as make a Unit of that which your Decimal is of, and prick from the Right-hand of the Products fo many places as your Decimal confilteth of: So those towards the Lest-hand of the said point or prick are Integers; and those to the Right-hand it, are parts of a Unit of those Integers.

N ,

Exam-

## 92 Reduction of Decimal Fractions.

Example 1.] What is the Value of .1071. of a Hundred? See the Operation.

.1071 Hundred
4 Quarters in a Hundred Multiply

.4284 Quarters of a Hundred Multiply

34**272** 8568

1. 11.9952 Parts of a Pound.

Note, That if you consider the Denominator of your Decimal to be 10000, you will find this way of discovering the Value of a decimal Fraction to disser nothing from that of Vulgar: Case 6. Sect. 2. of this Chapter; because by cutting off 9952 you divide 119952 by the Denominator.

In the last Example you see that the Value of .1071 Hundred is 11 Pound; and the Parts being another Pound, wanting less than a Hundred part of a Unit, you may call the Value 12 Pound: which proves the Work in the fourth Case of the last Section. And,

Note, That as often as the Decimal (as in the Example last preceding) is above .75, in the lowest Denomination, you may call it an Unit.

Example 2.] What is the Value of .747 of a pound Troy? See the Work.

.747 Parts of a Pound \ Multiply

I 494 747

Ounces 8.964 Parts of an Ounce Multiply
20 Penny-weight

Penny-weight 19.280 Parts of a Penny-weight Multiply

112

Grains 6.720 Parts of a Grain

So

So that by the Operation you may perceive the Value of .747 l. is 83. 19 d.-w. 6 grains, and about 3 of a grain.

Example 3.] What is the Value of .9184 of a Pound Sterling?

Shillings 18.3680 Parts of a Shilling Multiply
12 Pence in a Shilling Multiply

.736 368

Pence 4.4160 Parts of a Penny Multiply
4 Farthings

Farthings 1.6640 Parts of a Farthing.

Note, That the Value of a Decimal of a Pound, as in the last

Example, may be found by inspection, by this

Rule. ] Double the Figure standing next the point in the Decimal given; and if the next Figure toward the Right-hand the afore-faid Figure is 5 or more, add 1 to the Product: Then what Figure stands in the second place above or under 5, reckon so many Tens of Farthings; and what stands in the third place from the point is so many Farthings; which, as often as they are above 12, make less by 1, or above 39 less by 2. So .347 l. is 6 s. 114 6.

#### The Reason of this Rule:

That place in a decimal Fraction next the prick, is called *Primes*, being so many Tenth-parts of a Pound: Now to of a Pound being 2 Shillings; therefore whatever Figure possesseth that place, must be multiplied by 2.

The reason why you add 1 to the Product, as often as the second Figure from the prick is 5, or more, is because 05 of a Pound is 1 Shilling; for if .1 /. be 1 shillings, then half .1 which is .05,

must be a shilking.

Laftly, Your reckoning the second and third places from the prick fo many Farthings, supposes 1000 Farthings in a Pound; and there being

being but 960, that Rule must be something erroneous, but 'tis near enough the Truth for ordinary practice; especially if for the 40 Farthings which the 1000 exceeds the 960, you make this allowance of deducting I at every 25; for if 1000 is 40 too much, 500 is 20 too much, 250 is 10 too much, 50 Farthings is 2 Farthings too much, and as is a farthing for much; fo that your computation for 12 Farthings is: a Farthing too much; and if you deduct a Farthing at all Decimals between 13, and 28 or 39, it may be near enough; for less than a Farthirg is never received or paid in English Coin. Thus I hope the Rule is made plain, and by it you will find .750 is 7 Tenths of a Pound, or 141. and .0501. or 50 Farthings made less by 2 for the Reason asorelaid, is 48 Farthings, or I Shilling more, which makes 151 also 1 41 is I Tenth of a Pound or 2 Shillings, .050 1. or 1 Shilling more, which makes 2 s. and 44 Farthings (the, 9 being 4 above 5) made less by 2, for the Reason asoresaid, is 101d. So the Value is 3 s. 101d.

#### S. 8. Addition.

There is no difference between Addition of Decimals, and whole Numbers of one Denomination; observing only to place the Decimals point under point, as in the Examples, and prick so many off the Summ as are in the greatest Number of places in the Decimals given.

Example 1. 46.9765 l.	Example 2. .39462	Example 3. .789
360.146	.0014	-3642
41.007	.99	.153
729	.176	·9761
521.0295 Tot	al. 1.56192 Tota	d. 2.2813 Tet.

#### The Reason of this Rule.

The reason of adding Decimal thus, will appear from that of vulgar Fractions, after reduced to a common Denominator, in which Decimals always are, that to the Decimal of the most places, being the common Denominator, which is the Divisor for the Summ of the Numerators, as in the Rule to Case the 1st. of Section the 3d, of this Chapter.

. 9. Sub-

### \$.9. Substraction of Decimals:

Place the Numbers as in the last, and proceed as in Substraction of one Denomination.

Example 1.	Example 2.	Ezample 23.
From 39 0049	From 160.99	From 389.0
Take 7.947	Take 94.8462	Take 0.346
-	-	
Rem. 31.0579	Rem. 66.1428	Rem. 388.654

This Rule is the very same with that in vulgar Fractions. § 4. of this Chapter; Decimels always having a common Denominator, as is said before; so that the Difference between the Numerators or Numbers given, is the Numerator of the Answer; as in vulgar Fractions.

#### S. 10. Multiplication of Decimals.

In this Rule you are to place the Factors, and work as in whole Numbers: But after you have found the Product, observe this General.

Rule.] As many Decimal places as you have in both the Factors, so many places must you prick off toward the Right-hand of the Product. And if so many places happen nor to be contained in the said Product; (as it will happen when you mustiply swo-fractions together that are of little Value) you are no made up the Number by Cyphers toward the Lest-hand the said Product.

The reason of this Rule is plain, it differing nothing from that given for multiplying vulgar Fractions, Sect. 3. of this Chapter; for by multiplying the Summs given together, you multiply the Numerators; and by cutting off as many as are in both Decimals given, you multiply the Denominators, and divide that of the Numerators by the Product of the Denominators. Thus to multiply \( \frac{1}{2} \) by \( \frac{2}{3} \), is the same as \( .74 \) by \( .5 \), and too by to; \( \text{vis.} \) \( \te

# 96 Multiplication of Decimal Fractions.

Example 1. Multiply 3.467 By 19.01	Ex <b>ample 2.</b> Multiply 36492 By 032
3467 31203 3467 Prod. 65.90767	72984 109476 Prod. 1167.744
Example 3. Multiply .13461 By 42	Example 4. Multiply .1264 By .247
26922 53844 Prod. 5.65362	8848 5056 2528 Prod0312208
Example 5. Multiply .0:832 By 207	Example 6. Multiply .048 By .12
Prod. 100012824	Prod00576

#### S. 11. Division.

Division is the same with that of whole Numbers; all the difficulty therefore is, to know how many Decimal places to prick off toward the Right-hand of the Quotient: For which take this

Rale. Take notice how many Decimal places you have in the Dividend, and how many in the Divisor; and as many as the difference is, so many places must you prick off to the Right hand of the Quotient: But if so many places be not in the Quotient, as the

faid

Taid Difference: make up the Number by prefixing Cyphers to

ward the Left-hand,

Decimal Fractions may also be divided as Vulgar, Sell. 6. of this Chapter: as 121 by 1111 quotes 11111 or 6.

Example 1. ] Divide 12.43 210 by 9.465. See the Operation.

29671 12760

Remains 2295

Note, That in this and most other Examples in Division of Decimals, it will be necessary to place Cyphers toward the Right-hand of the Dividend: and that you may know what Number of Cyphers to put to the Right-hand of any Dividend, observe this

Rule 1.7 Consider how many Decimal places you would have in the Quotient, (as 3 is suffici-

ent, if it is not afterward to be multiplied by any thing,) and also how many Decimal places you have in your Divifor; and make for

many Decimal places in the Dividend by adding Cyphera, if need require, as in the Exemple in the Margent, where 3 46 is divided by 1.47: and because I would have a Decimals in the Quotient, and there are two in the Divisor, I must make & Decimal places in the Dividend.

\$20 790 550 109 Remains,

The Remainer being less than I Thousand part of an Unit, is not material. So much for Division.

The Golden Rule is the same with that in whole Numbers, observing Multiplication and Division of Decimals, as they are already taught.

And the second s

and the second of the second o

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## S. 1. Rules of Practice.

Before you enter upon these Rules following, it is necessary you should have the foregoing Tables of the Aliquet parts of Money and Weight well fixed in your Mind, and likewise the Table following of the 9 Digits, multiplied by 12, which will enable you to multiply or divide any Number by 12, as the it were but a Digit.

12 Times 
$$\begin{cases} 1=12 \\ 2=24 \\ 2=36 \end{cases}$$
 12 Times  $\begin{cases} 4=48 \\ 5=60 \\ 6=72 \end{cases}$  12 Times  $\begin{cases} 7=84 \\ 8=96 \\ 9=108 \end{cases}$ 

As a necessary Introduction to Practice, you are also to learn to divide a Number by any of the 9 Digits or 12, without putting down more Figures than the Number to be divided and the Quotient: For the Rules of Practice being of daily use with the Merchants ought to be performed with all imaginable Brevity, I shall therefore give the following Examples, to inform the Learner how to take 1, 1, 1, de. of any Number, and then proceed to what I chiefly design in this Section; namely to shew how the Value of any Quantity of Merchandice may be found with most Dispatch.

- Admit then you would take half 3164. Say the Two's in 2 is 1 ( and the rover makes the next 1 Bleven ) Two's in 11 is 4, and the 1 over makes the Six 16, Two's in 16 is 8, Two's in 4 is 2; fo that the half of 2164 is 1582. Also by the same Rule & of 18764 is 6255; 13 of 46727 is 1893, and 7 remains; and 10 of 47632 is 2381, if according to the third Case of the 5th Chapter, you cut off the Figure in Unit's place of the Dividend, and 13 of 46722 take ! the rest: And in these Cases, what remains, is always of the fame Name with the Dividend.

is=2381 : 12 Rem.

Case 1.] When the Price of a Unit or Integer of a Commodity is a Shilling.

Rule.] Take ri of the given Number for the Answer, because

201 is a Pound.

Example.] What is 46743 Pound of Cotton-wool worth at 12d. per Pound? See the Operation.

10 46743

is 23371. 31. Auf.

Case 2.] When the Price of any Commodity is 2 Shillings.

Rule.] Take 1 of the given Number, as 19764 at 2 s. in the third Example of the third Case of Chapter the Fifth. Or cut off Unit's place, fo those Figures to the Lest-hand are Pounds, 1976 l. 8 s. Facit. and those to the Right, so many 2 Shillings.

#### The Reason of this Rule.

Two Shillings is  $\tau_{\tau}^{\perp}$  of a Pound; and to divide a Number by so, is only to cut off Unit's place of the Dividend and Divisor, by which the Divisor will be but a, and the Dividend less by the Unit's place cut off, as  $\frac{1}{12}$  is equal to  $\frac{1}{12}$ , thus  $\frac{1}{12}$ : Now a being a Number which does not divide any other, therefore the Figures remaining of the Dividend to the Lest-hand must be the Answer in Pounds; and the Figure cut off in Unit's place being so many Two Shillings as the Digit denoteth, must therefore be multiplied by 2, to produce Shillings.

By this Rule you have also the Resson of reducing Shillings into Pounds, by cutting off Unit's place of the Dividend, and taking ‡ the rest for Answer; because 1 s. is ‡ of 2 s. or it is ‡ of

n of a Pound.

Example. ] What is the Price of 19764 Yards at 2s? See the

Operation above.

Note, That what remains is always (as was faid before) of the fame Denomination with the Dividend; fo that in the last Example, 4 remaining is 4 two Shillings, or 8 s.

Case 3. ] When the Price of the Unit is any other even Num-

ber of Shillings under 201. take this

Raie.) Take i the Price of the Integer, and by that multiply the Summ given, and the Product is pounds; only when you multiply

the

the first Bigune toward the Right-hand, double the Excels of the Product above Ten or Tens for Shillings, and cutty the faid Tens to the Pounds, as in the Examples following.

## The Reason of this Rule

Is plainly deduced from the common Rule of multiplying any Number of Integers by the Value of one Integer, to give the price of all the Integers; and from the Rule for taking is a Number of Shillings (except Unit's place) for Pounds; for it produceth the same thing, if I take i the Product of 2 Numbers multiplied together. as if I multiply one of the Numbers by 1, the other, thus: If I multiply 640 by 6, 1 the Product is 1920, equal to the Product of 640 by 2, which thews the Reason of multiplying the Number given by the Price of the Integer, for the Answer in Pounds. And as for the Figure in Unit's place, which is, in this Case, always Shillings; the multiplying it by ? the Price of the Integer. the doubling the Number above Ten or Tens in the Product for Shillings of the Answer, &c. is the same as if you multiply the faid Figure in Unit's place by the whole Price of the Integer, and put the Shillings, above or under a Pound in the Shilling's place, and carry Il. for every 201. to the Pound's place, as in the following Example, if you multiply the 2 by 6 s it produceth 18 s and the other 2 Figures, multiplied by 1 the Price of the Integer, for the Reason aforesaid, produceth the Pounds, viz. 22961, 181.

Example 1.] What the Price of 4323 Yards at 61 per Yard? Work as in the Margent.

Example 2.] What the Price of 16947 Yards at 81. per Yard?

In this Example, say, 4 times 7 is 28, twice 8 is 16s. and carry 2 Pound; 4 times 4 is 16, and 2 is 18; 8 and carry 2, &c.

Example 3. ] What the Price of 7942 Yards of Broad-cloth at 181. per Yard?

4323. Yasds at 6s.

L 1296: 181. Anfw.

16947 Yards at &A

67781. 16 s. Facit.

7943 Yards at 181.

7148 l. 14 s. Facit.

Note, That from the Rule in this Case of an even Number of Shillings, are excepted so a and 2 s. For when the Price of the

Unit is 24. work as in the second Case: and if the Price of it is 20.4 take half the Integer given, because there are twice 10%, in a Pound.

Example 4 ] What the Erice 369 Ells at 10 s. of Holland at 10 s. per Ell?

ver in a vertical de sour or vertical 1841, 103. Feets.

Case 4.] When the given Price of a Unit of any Wares or

\*Commodity, is any odd Number of Shillings under 20.

Rale.] Work for the next even Number of Shillings, that are less than the said odd Number, by the Rules in the last Case; and for the odd Shilling, work as in the first Case, and the Summ is the Answer in Pounds.

Example 1. What is the Price of 859
Yards of Muslin at 17 s. per Yard? See
the Margent.
From this last Rule is excepted 5 s. For if the Price of the Integer is 5 s. take 4 of the given Number, because 5 s. is 4 of a

Pound.

859 Yds at 17 s.

1.

1.

2.

42 19 at 1

720 2 Facit.

Exemple 2.] What is the Price of 3743 fb of Coffee at 5 s. per Pound?

3743 th at 5.5i

See the Work in the Margent: where observe that the 3 remaining is 3 five Shillings, or 15 s.

.935 h 15 s. . .

Case 5.] When the Price of the Integer is 1 d. or any other Number of Pence, which are the Aliquot, or even part of a Shilling.

Rule. ] Divide the Number by the said part, and those Shillings into Pounds by the first Case.

Example 1.] At 1 d. per Pound, what if of 9764 fb at 1 d. con 9764 fb?

is 8131.8d.Rem.

Focis 401. 131. 8d.

Exam-

Example 2.] What cost 13147 fb of 3 of 13147 fb at 2 d. damaged Rellins, so sal pair Pound ? It no late e tomoun Answ. 109.1. 11 s. 2 d. Or, take Tat of the given Number, by, perform it at once. AS OF SECURITY SUITS OF SECURITY SECURI Example 3. What cost 87341 Pound: 4 of 8734.116. at 3 d of Sugar at 3 d. per Pound ? Ans. 1091 l. 15-1. 3 d. 113 11. is 21835 s. 2d. Re. Or, take i of the given Number, viz. i of 2182. 7 Fasit 1091l. 151. 3d. Example 4.] What cost 3097 Pound of 2097 lb. at 4d. of Raisins at 4d. per Pound? Answ. 511. 121. 4d:---. is 10321. 4d. Rem. Or, take so of the given Number. See the Operation of each in the Mar-Facit 511. 12 s. 4d. gent. Example 5. ] What cost 14032 Pound of 14032 lb. at 6d. of Sugar at 8 th and Pound & The state of th In this last Example of 6 d. you need only to take a fourth part of the given. Makes 3501. 16s. Number, except the Unit's place, which you cut off. and you have the Ans. 350% and the 32 Six-pences. that remains are 16 .... Case 6. ] When the Price of a Unit or Integer of any Commo. dity is any Number of Pence under 12; that are not an even part of a Shilling; as 5 d. 7 d. 8 d. 9 d. 10 d. or 11 d. you are to work. as in this and the following Examples. Example. ] What cost 34071 Pound'of Figgs at 5 d? Rule.] Because & d. is a fixth part of half a Crown, take & and then 1 of the Quotient for Pounds, as followeth: हे 34071 lb. at *६ d.* ે ૧ મા ૧૩૦૧ કે <del>તે વેવન ક</del>ામ કે તો તો કાર્ય માત્રે પ્રાપ્ય કર્યું છે. with the there the \$ 15678: 25 d. Remainston Facit 709: 16: 3

Example 2. ] When the Prima of the Unit of any thing is 7 d.

Park. Take fifth of the given Number, because 80 Three-pences make a l. then take to of the given Number, (because 60 Groats makes a Pound Sterling,) and add to the to and the Summ is the Aniwer ill Pounds. See the Work following.

Example.] What doft 321 Pound of damaged Gorton at 7 d.

of 321 16. at 7 d.

Add and is 31. 72. Remains.

Facit 91. 7 s. 2 d.

Now, That the 1 remaining above the first Quotient, is 1 Threepence; and the 21 remaining above the second Quotient, is 21 Fourpences (by the Rules foregoing) or 7 s. so the Answer is 91. 7s. 3d.

Example 3.] When the given Price of a Unit or Integer is 8d.

Rule.] Take & of the given Number, and put it down twice, and the Summ is the Answer in Pounds, or & of the given Number is the Answer at once.

Example.] What cost 3746 Yards of Ribbon at 8 d. per Yard?

of 3746 Yards at 84.

Add { is 62 l. 8 s. 8 d. 62 l. 8: 8

Facit 1241. 17: 4

Example 4.] When the given Price of the Integer is 9 d.

Rule. ] Take 45 of the given Number, for 6 d. and 1 of that Quotient for 3 d. and the Summ is the Answer in Pounds.

Exam-

Exemple 4.] What cost 4052 Bushels of Costs at 9 di per Bushel? The Operation followeth.

다 of 4052 at 9 d.

is tal: 61. Add

Facit 151 l. 19 ...

When the given Price of the Unit or Integer is 10 d.

Rale ] Take  $\frac{1}{40}$  for 6d, and  $\frac{1}{40}$  for 4d, of the Number given, and the Summ is the Answer in Pounds.

Example 5.] What cost 3179 Pound of Hops, at 10 d. per Pound?

is 79 k 9 s. 6d. Add

Tis 52 l. 19: 8 Add

Facit 132 l. 9: 2

When the given Price of the Integer is 11 d.

Rule: ] From the given Number (supposing it shillings) take it therof, and the Remainer is the Answer in shillings; which bring into pounds by Case the first.

Raimple 6.] What cost 3470 Pound of Copper at 11 d. per.

is 289 s. 2 d.

Rem. 3180 s. . 101

Facit 159 l. 00: 10 d.

p

Cafe 7.]

133

Cafe 7.] When the given Price of a Unit or Eddiger is Rarchings under 4.

Rule. Take the Aliquot parts of rd. or as. and work for the

fhillings as before.

Example 1.] What cost 19746 Yards of Tape, at 1 Parthing per Yard?

In this Example take i for Pence, if for Shillings, and i for

Pounds.

4 of 19746 Yards at I Farthing.

Pacit 20 l. 11: 42

Example 2.] What cost 47390 Yards of Tape, at 2 Farthings per Yard?

In this Example take 1 for Pence, and proceed as in the last.

47390 Yards at 2 Farthings.

23698 d.

Fair 981. 141. 74.

Example 3. What cost 41038 of Ditto, Yards at 3 Farthings per Yard?

In this Example take 1 for 3 half-pences, 1 of the 3 half-pences for findlings, Oc.

; 41038 Yards at 3 Farthings.

1 20519 Three half-pences.

2564 s. 101d.

Fecit 128/. 4: 105.

Or take to of a of the given Number.

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Cafe 8.] When the Price of the Integer is Shillings and Pence:

Rule, Work for the Shillings as is before directed, and also for the Pence as before taught, and the Summ is the Answer in Pounds.

But if the Pence given be an Aliquot part of the Shillings given, you may take such a part of the Quotient for shillings, and the Summ of the Quotients is the Answer. Or if the shilling and pence together be an Aliquot part of a pound; take such part, and you have the Answer at the first Operation in pounds.

Example 1.] What soft 1914 Ells of Lockram, at 11. 8d. per Ell?

Rule. ] Take 12 because 1 4 8 d, is 1 of a Pound.

1 of 1914 Ells at 11. 8d.

Facit 159 l. 10 s.

Example 2.] What cost 2789 Ells of Bagg-holland at 31. 4d.

Rule. ] Take 5, because 6 Three shillings Four pences make a Pound.

2789 Ells at 31.-4 d. -

Fesit 4641. 16 s. 8 d.

Maining is 5 Three shillings 4 pences.

Example 3.] What cost 978 Groß of Buttons at 63. 8 d. per Groß?

Rule. ] Take to because 6 s. 8 d. is t of a Pound.

-} cof 9/8 at 253. 89€1

Facir 326 f.

N :

. . .

City is all its

*સાંદે કે કું કું કું કું છે. છે કે કે કું મ*ાલ

Ream.

Example 4. ] What cost 796 Ells of Dowlass, at 34. 10-d. per Ell?

Rule. Take 1, as in the second Example, for 3 s. 4 d. and 1 for the 6 d. and the Summ of the Quotients is the Answer as followeth.

t of 796 Ells at 3 s. 10 d.

is 1321. 13 s. 4d. at 3 s. 4d. is 191. 18: 0 at 6d.

Facit 152 l. 11 s. 4 d. for Answer.

Example 5.] At 17 s. 4 d. per Yard, what cost 394 Yards of Broad Cloth?

Rule ] Take for 17 s. as is before taught, and  $\frac{1}{60}$  of the given Number for the 4 d.

394 at 171. 4d

315 l. 4s. for 16s. .19 l. 14s. for 1s. Add f of the 19: 14 is 6l. 11: 4d. for 4d.)

Facit . 341 l. 94. 4d.

Or this may be done at twice by working for 14s. and 3s. 4d. as before.

Example 6.] What cost 1504 Ells of Cambrick at 191. 9d.

Rule. Take for the 19 s. as is taught in shillings per Unit, and for the 9 d. as is directed in pence per Unit.

1504 Ells at 125. 9 d.

1353 l. 125. at 185.

75 l. 4 at 15.

37 l. 12 at 6 d.

18 l. 16 at 2 d.

Facit 1485 4 41. 00 Summ

Note,

P. .i.

Nete: That in this last Example, after you have done with the shillings, you may take i of 75 l. 4s. for the 6d. because 6d is ! a shilling, and 1 of 37 l. 12 s. for the 3 d. because 2 d. is 1 of 6 d. which is somewhat more brief.

But this is more briefly refolved by deducting from 1504 one

80th thereof, and the Remainer is the Answer.

Example 7.7 What cost 1904 Ends of Dimity at 14 s. 10 d. per End?

1904 at 143. 10 d. 1222 l. 16 l. at 14 s.) =471. 12: 80 6d Add == 21 l. 14: 8 at 4 d.)

Fost 14121. 2:8d.

Example 8. ] What cost 1869 Yards of Fustian at 21. 4d. per Yard?

> 1865 # 2 s. 4 d. 186*l*. 105. St 25. 1: 8 d. at 4 d.

#### Fasit 217 l. 11 s. 8 d.

Case 9. 7 When the given Price of the Integer is Pence under

12, and Farthings under 4.

Rule. Work for the Pence as is before taught; and if the Farthings are an even part of the Pence that you work'd for next before the Farthings, take such part; otherwise work for the Farthings, as is taught before at Farthings per Unit.

Example 1.] What cost 3471 Dozen of Buttons, at 3 & 50 of 3471 at 33d.

Foit sol 12:

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Merchants Accompts: Or,
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Example 2.] What cost 9761 Pounds of Sugar, at 94 per Pound?

vi of 97611. at 54.

is 122 l. 00 s. 3 d. at 3 d. 7

. . of which is 10% \$4.14% at 14.5

Facit 213 h 101. 54h ...

Example 3.] What cost 1794 Pounds of Pepper, at 31d. per Pound?

of 1794 at 33d.

is 22 l. 8 s. 6 d.

4 of the last Quote is 5 l. 12; 1½ at 3 q. } Add

Facit 28 1. 00: 72.

Case 10.] When the Price of the Integer or Unit is Pounds, Shillings, Pence, and Farthings.

Rule.] Multiply, the given Number by the Pounds, and to the Product add what the same comes to at Shillings, Pence, and Farthings, as is taught before.

Example. ] What cost 276 Hundred, 2 Quarters of Steel at

21. 3 8. 8.d. per Hundred?

ot p

For Answer: First multiply the 276 by 21. then for 35. 4d. take ½ of 276; for the 4d. take ½ of it; and for the ½ penny, take ½ of the last Quotient; and for the half Hundred, take ½ of 2L, 3s. 8½d. which is 11. 1s. 10½, and the Summ of these is the Answer. See the Operation.

C. Q. 276: 2: At 2 l. 3 s. 8.d.

Add { 1. 12: at 4.4. (this is - of the 1. 46) o l. 11: 6d. at 2q. which is is of 4l. 12:.

1 1: 10! for the half Hundred.

Facil 604 l. 5: 44.

9. 2. Con-

#### S. 2. Concerning Tare and Trett.

Thre is an Allowance in Merchandize made to the Buyer by the Merchant for the Weight of the Bagg, Cask, Cheft, Freal, Hogshead, &c. in which any Merchants Goods are put, After this Allowance is deducted from the Groß-weight, (which is the Weight of the Commodity and Cask, Hogshead, &c. together) the remainder is the Weight of the Commodity only, and is called Nettweight: The Allowances for Tare are various, as you shall see by and by.

Treet is an Allowance made for the Waste, that may be mixt with the Commodity, as Dust, Dirt, Or. which is always 4 l. at 104; but tho' the Merchant alloweth this to the Recaller, yet himself is only allowed Tare in paying Custom: so that he payeth as well

for the Dust as the best of the Commodity.

Note, That in such Commodities wherein Trest is allowed, the Remainer, after the Tare is deducted, is called Sattle: out of which Sattle the Allowance for Trest is made; and, when it is deducted, the Remainer is called Nett. But if no Allowance is made for Trest, that Weight is called Nett, that remaineth after the Tare is deducted, as was said before; so that the Tare is always deducted from the Gross-weight, and the Trest from the Sattle: And to shew the best Method for discovering and deducting these Allowances, is the Work of this Section, and shall be explained in the Cases following; wherein I shall be as plain as I can, because I do not know any where the same is done already with that Variety, Brevity and Perspicuity which is necessary.

Case 1.] When the Allowance is 141. per Cent. (as of Almonds,

Steel, Hemp,) how to compute the Nett-weight.

This Case, as also the rest, may be resolved several ways; which after I have given you an Example of, I shall pitch upon that which, in my Opinion, is the briefest.

Example 1.] What is the Nett-weight of 96 C. 2 Qrs. 7 lb. Gros, Tare at 14 l. per Cent. to be deducted?

#### The first way.

Rule. ] Reduce the given Weight into Pounds, as in the third Example of Case 2. § 2. Chap. 6. as followeth: then say, as 112 lb.

to 14 its Tare, so is the Pounds given to the Answer in Tare; which deduct from the Pounds Gross, and the Remainer is Pounds Nett.

C. Qrs. lb.
9: 2: 7
9
93
96
1071 l. Groß

1071 lb. Groft. Deduct 1334 lb. Tare.

Answer '9374 lb. Nett.

2dly. Say, Groß Tare, Groß 112; 14: 1071

4284

4284 1071

112) 14994 133 lb. Tare.

379 434.

98 Remains, or  $\frac{92}{112}$  or  $\frac{1}{4}$  of 11b. and better.

A Second way of working the last Question.

Reduce the 2 Quarters 7 Pound into the Decimals of a Hundred, as is taught in Reduction of Decimals; then deduct 14 the Tare from 112, and the Remainer is 98: So must you multiply 9.563 C. by 98, and the Product is Nett-pounds required.

9.563 C. Gross.
98 Nett-pounds in 1 C. Multiply

76504 86067

02

927.174-The Answer Decimally.

A Third

A Third way of finding the Tare and Nett-weight by Practice.

Because 1416. is i part of 112: take i of the given Number, and you have the Tare sought.

i of 9 C. 2 Les. 7 lb. Gross.
is 1.: 0: 21 lb. Tare, deduct.

Remains 8: 1: 132 Nett.

#### A Fourth way of finding the Tare.

Multiply the Hundreds by the Tare to be allowed for I Hundred; and for the Quarters and Pounds in the Grass-weight, take a proportionable part of the said Allowance for one Hundred, and the Summ is the Tare in pounds; which you may either reduce into Hundreds, and deduct it from the Gross-weight, or the Gross-weight into pounds, and then deduct the Tare in Pounds.

So that to find what Tare is to be allowed for 9: 2: 7 Groß,

Tare at 14 Pound per 112:

C. Q. 16

Multiply \{ 9: 2: 7 Gross.

For 9 C. you have 126 lb. Tere.
For 2 Quarters— 7 lb.
For 7 Pound = 1 02 lb.

Tot. Tare=133\frac{1}{4}lb. or 1: 00: 21\frac{1}{4}lb. The Answer as before.

This Method (especially where the Tare is to be allowed per Cent. is not an even part of 112 16.) is the most easie and expeditious; but the Learner may make use either of the 2d or 4th. way, as he best liketh; by both which Methods, the following Cases are wrought.

Case 2.] When the Allowance for Tare is 41. per Hundred-weight, as for Cotton-wool, Hopps, Feathers, Lambs-wool, or Polish.

Rule. ] Take + of 1 of the Groß-weight, and you have the Tare; which deduct from the Groß, and the Remainer is the Nett-weight required.

Example. What is the Nett-weight of four Sacks of Cotton-wool, whose Number and Weight is as followeth.

C. Q. 1b. By the 4th way (C. Q. 1b.

N° 31 1 2 2 19

34 2 2 2 1 07

36 3 : 0 : 14

40 2 : 1 : 12

Tare \( \begin{array}{ll} \ldots & \delta & \delt

Total Groß 9: 3: 24 at 41. per Cent. 18. 2

2: 1: 27 is 1; of which take is a: 1: 11? The Tare deduct from the Gross.

Remains 9: 2: 12 Nett.

Note, That what Hundreds remain in dividing, must be reduced into Quarters of Hundreds; and what Quarters remain, must be reduced into Pounds, and then divided; so in taking 1 of 9 Hundred (in the Example toward the Last-hand) one Hundred remains, or sour Quarters; which added to the 2 is 9 Quarters; 1 of which is one Quarter, and three remains 2 or 84 Pound, and the 24 is 108 Pound, 2 of which is 27, &c.

Case 3 ] When the Tare to be allowed is 61. per Hundred-weight.

Rule. I Take 1 of the given Number, and 3 of that fourth for four pound Tare: then to the last Quotient add half it felf, and the Summ is the Tare required.

Or, as in the 4th Method: Multiply the Hundreds by 6; and so proceed as in the 4th Way of finding the Tare is directed, and in the Example.

Example. ] What is the Tare of 6 Cask of Latin or Iron-wire, 2016 1. per Hundred Tare 2

```
By the 4th Way (by which this is best performed)
                        'C. Ly. 16.
  The Groß-weight being 16:00: 14
                      16. 96 is the Tare of 16C
                         of 1416. (216. being 1 of 6 16.
                           28 14 lb. is i of 112 lb.)
            Total Tare = 963 lb.
  Case 4. ] When the Allowance for Tare is 7 l. per Cent.
  Rule. Take; of a Eighth of the given Number for Tare.
  Example.] What is the Tare of 9 C. 3 2rs. 16 to at 71. per
Hundred-weight. See the Work following.
                                     Or by the 4th Method
         C. Qrs. lb.
         9: 3: 16 at 71. Tare
                                         (C. Q. b.
                              . Multiply < 9: 3: 16 at 74
                              For 90.=621.
         1: 0: 26 移生
                               For 3qr. - 5, 1.5 Tare
  Deduct b: 1: 12 is of be- For 1616.-011.)
                   - ing the Tare
Remeltier 92 121 63 Nett. . . . 69% Total Tarc.
  Case 5.] When the Allowance for Tare is 84. per Hundred-
weight, as for Copper and Brimstone.
  Rule. Take i of a Fourth of a given Number, and put it
down twice, and the Summ is Tare.
  Example.] What is the Tare of three Fats of Copper: Viz.
      C. Qr. lb.
N° 7, 19:1:06
                         Or by the 4th Way.
   9, 21: 2: 04
                             C. 64: 2: 24 Groß.
   C. 64: 2: 24-Total Groß
                                · 5 12 16. Taxe of. 64 C.
                                 4 lb. Tare of the 2qrs.
   C. 16: 0: 20 = \frac{1}{4} of the Gross
                                   1:14 Tare of the 24.16.
       2: 1: 06= ; of the 4th ?
                               Add A 17 Tere of Total Gross,
     The part see for the part the part of
      or C. 42 2: 133, as
       4: 2: 13; Total Tare
                               before, vivi
                                                  Cafe 6.7
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## Merchants Accompts: Or,

Case 6. ] When the Allowance for Tare is 10 Pound per Cent.

Rule.] From 1 of the Groß-weight, take 1 of 1 of the said
Weight, and the Remainer is Tare.

But this Question is best performed by the 4th Way.

Example. ] What is the Allowance for 14C. 1 2r. 10 lb. of Copperas, at 10 Pound per Hundred Tare?

C. Q. lb.

16. 140 Tare of 14 C.

1b. 21, of 1 gr.

lb. of of rolb.

1434 - Tare required.

Case 7.] When the Allowance for Tare is 121. per Cent. as of Alum, Salt-petre and Tallow.

Rule. ] From i of the Gross-weight, take i of the Eighth, and

the Remainer is Tare.

Example.] What is the Tare of 15 C. 3 Q. 16 lb. of Bak-petre at 12 l. per Cent.

C. Q. 1b. .

Groß 19: 3: 16 at 121. per Cent.

1: 2: 26 is i of the Gross.

0: 1: 04 is 3 of the 8th, which deduct from the 3.

1: 2: 22 Tare required, deduct from the Groß.

Remains 14: 0: 23 Nett.

Case 8. When the Allowance for Tare is 161. per One.
Rule. Take 7 of the given Number: (this being done best by
the 3d way 2 and you have the Tare.

Exem

Example.] What is the Tare of 10 C. 2.2. 26 B. of Currans, at 16 l. per Cent.

C. Q. lb.

Groß 10: 1: 26 at 16 l. Tare.

1 = 1: 2: 3

Net = 9: 0: 23

Thus have I given you Rules for deducting the usual Tares in most Commodities where 112 lb. is allowed to the Hundred-weight; which Methods I refer to the Learner, as the best, being brief and commendable according to the Rules in Practice among the best Merchants, but if the Learner thinks the foregoing Method charges he Memory too much, he may use the following Table of the Decimal Pasts of 112 lb. by which he will work Quarters of Hundreds and Pounds, as the they were Hundreds, as shall be shewn by several Examples following the Table.

-. . • 1 . .

A TABLE for the speedy finding the Tare; shewing what Decimal Part of One Hundred any Number of Quarters and Pounds are.

Dr.16.	<i>C</i> .	Qr. lb.	G.	Qr. 16.	C.	Qr, 16.	C.
o I	.0089	.10	.25	2, 0	`-5	3 0	·75
2	.0178	7.1	3289	V.	-5089	1	.7589
3	.0267	2	.2678	2	.\$188	2	.7679
4	.0357	3	.2767	3	-5277	3	.7768
5	.0446	4	.2857	4	.5367	4	.7857
6	.0535	5	.2946	5	.5456	5	. 7946
7	.0624	5	.3035	6	-5545	6	.8036
<b>7</b>	.0714	7	.3124	7	.5634	7	.8125
9	:0803	7	.3214	8	.5724	8	.8214
10	.0892	9	.3303	9	.5813	. 9	.8202
11	.0983	10	.3 292	10	.5902	IO	.839 <b>3</b>
12	.1071	' Iz	.3481	11.	.5991	, #I	.8482
13	.1161	12	-2570	12	.6081	13	.8571
14	.1250	13	.3660	13	6170	13	•866 <del>0</del>
Is	.1339	14	-3749	34	6199	<b>I</b> 4	.8750
16	.1429	15	.3838	, 15	.6348	. 15	8839
17	.1518	16	.3927	16	.6438	16	.8928
- 18	.1607	17	.4017	17	.6527	17	.9017
19	.1697	18	.4106	18	.6616	18	.9107
20	.1786	19	4195	19	.6705	. 19	9196
16	.1875	20	.4284	20	.6795	20	.9285
22	.1964	3.1	.4374	21	.6884	2.1	9374
23	.2054	22 .	.4463	. 22	.6973	. 22	.9464
24	.2143	23	4552	23	.7062	23	.9553
25	.2232	24	4641	24	.7152	24	.9642
26	.2321	25	4734	25	.7241	25	·973 E
27	.2411	26	4820	26	.7330	26	.9821
		27	4919	27	.7410	27	.99E

#### The Calculation of this Table.

This is no more than what is taught in Example 4. of Sect. 7. of Chap. 8. of this Book.

Example.] Admir I would know what Decimal part of a Hundred 2 Quarters 27 Pound is.

In 2 quarters 27 pound are 83 pound, or  $+\frac{1}{2}C$ , which by the Rule in the faid seventh Section of Chap. 8, Example 1. is thus reduced to a Decimal.

112 83:: 10000 83 C. 112) 830000 (.7410 Answer. 460 120

By the Work you may fee that the 2 quarters 27 pound is .7410 C. and is the Tabular Number, answering 2 quarters 27 pound; the Use of the Table in allowance for Tare is as followeth.

## The Use of the Table foregoing.

Example 1.] What is the Nett-weight of the four Sacks of Cotton mentioned in Case 2: of this Section, the Gross-weight of

which is 9 hundred, 3 quarters, 24 pound.

Rale.] Take the Decimal of 2 quarters 24 pound out of the Table, which is .9642: Then deduct four pound Tare from 112, and the Remainer is 108 Nett-pounds in 112 Gross, as we shewed before: Therefore multiply 9.9642 C. by 108, and the Product is Nett-pounds, and parts of a pound.

9.9642 C. 108 7.97136 9.9642

which is the same as in the said second Case of this Section, as you may prove by reducing that Nett-weight into pound:

Exam-

It would be needless to give any more Examples of the deducting Tare, since by knowing the usual Tare for any Commodity according to the Custom of any Port, the Learner may by the help of the foregoing Rules, be able with Speed and Exactness, to make any Allowance desir'd. I shall therefore conclude this Section with one Example of Allowance for Tare and Trett.

Cafe. 11.] When Allowance is requir'd for Tare and Trett. Rule.] Find what is to be allow'd for Tare according to the Rules foregoing, which having deducted, the Remainder (as was faid at the beginning of this Section) is Suttle, which reduce into Pounds and divide by 26 (because that is 1 part of 104.) and the Quotient is what is to be allow'd for Trett, which deduct from the Suttle, and the Remainder is Nett.

Example] What is the Nett-weight of the Puncheon of Pruons following, Allowance being made of 14 Pound at 112 for

Tare, and four Pound at 104 for Trett?

C. Q. l.

1 Puncheon at 9,: 2: 10 Gross at 14 Pound Tare per Cent.

\* is =1 : 0 : 22 Tare deduct

Remains 8: 1: 16 Suttle.

8:

84

84

940 pound Suttle, which divide by 26, 2nd you have 36 pound Trett, deduct.

904 pound Nett, For Answer.

Note, that Trett, and a pound at every 300 Weight for Draught, is usually allow'd in the Port of London for Cinnamon, Cloves, Mace, Tobacco, Cotton-Yarn, Cotton-Wool, and other Things that have Waste.

#### §. 3. Concerning Bartering.

Merchants are said to Barter, when they exchange one Commodity for another; but there is much more difficulty in the Name, than the Rule; for that is no other than the Rule of Proportion, which has been raught already, as will appear by the Example following.

Case 1.] When two Merchants Barter, and each rateth his Goods fold in Barter, as the they were sold for ready Money.

Rule 1 Let one Merchant consider what the Goods he is minded to Barter amounteth to: Then, by the Rule of Proportion, fee how much of the other Merchant's Commodity the said Amount will buy, and so much must be given.

Example.] A Merchant has 18 Hundred 2 Quarters of Coffeeberries, at 14 Pound 10 Shillings per Cem. which he is willing to Barter with another Merchant for Lime-Juice, at 20 pence the Gallon; how much Lime-Juice must the second Merchant give the first for his Cossee-berries?

The Price of the first Merchant's Coffee is thus by Practice.

C. Q. l. s.
Multiply \{ \begin{align\*} 18: 2 at 14: 10 per Cent. \\ 14 \end{align\*}

. 48

Add 9 l. at 10 s.

7 l. 5 s. for the half Hundred.

The Value of the Coffee 2681.

Then fay 20: 1:: 268: 5

20

5365.

20) 64380 d. (3219 Gall.=Answer:

By:

By the Work I find, that if 20 Pence buy one Gallon of Lime-Juice, 2681. 5 s. or 64380 d. will buy 3219 Gallons: And so much the second Merchant gave the first for his Cossee-Berries.

Case 2.] When two Merchants Barter, and the one rateth his Goods above the common Price for ready Money, to know how the other Merchant may advance the Price of his Goods in proportion to the first Merchant, and how to Barter without Loss

thereby.

Rule.] Consider what the first Merchant's Goods are worth per Integer in ready Money, and how much he advanceth the Price in Barter: Then say, If the Price of a Unit of the first Merchant's Commodity advance so much in Barter (mentioning the difference between his ready Money and Bartering Prices) how much must the Price of a Unit of the second Merchant's Commodity advance above the ready Money-Rate in Barter; which having found, Work according to the Bartering Prices of each, as in the last.

Example. A Merchant hath 19 Hundred, 1 Quarter of Alego Gauls, which he valueth at 9 Pound 6 Shillings and 8 Pence for Hundred ready Money; but in Barter he will have 9 Pound 10 Shillings for Hundred. Another Merchant hath Jambes Pepper, at 14 Pence the Pound ready Money; how much Pepper must the second give the first for his Gauls, advancing his Price in Barter proportionably? Answer, 1394 14 Pound of Pepper. See the Operation.

Here you see, that if f l. 6s. 8 d. (or 1280 d.) advance 3 s. 4 d. in Barter; then 14 d. must advance 1\frac{1}{2} Farthing. So that now the Gauls being 5 l. 10 s. or 1320 d. per Hundred, the Pepper is so be reckoned 14 d. 1\frac{1}{2} q, per Pound.

K 2

Then find the value of the Gauls, by adding the pence in 3.4. 4. to the foregoing 1280. Which maketh 1320. by which multiply 15 Hundred 1 Quarter, (or 15.25, the Decimal of 1 Quarter being .25) and the Product is the value of the Gauls 20130. Then find the Answer to the Question by the following Proportion, viz. If 14. 1. 14915, buy one pound of Pepper; How many will 20130 d. buy?

d. q. l. 14:1‡:1:: 4	20130: 4 Farthings	15.25 C. 1320.d. per C.
\$749rs.	80520 Farth.	3050.
Or <sup>23</sup> igr. By Case of Reduction of	the First	4575 1525
Case of Reduction of Fractions.	Vulgar	20130.00 %

#### Then by Division of Vulgar Fractions.

#### 11) 10520 (111010 Answer.

Which by the second Case of Reduction of Vulgar Fractions is 1394 if pound of Pepper and so much must be given for the Gauls.

## S. 4. Concerning Exchange of Coin.

IN this Section I shall endeavour, with what Brevity I can well, to take notice of several things, which other Authors, treating on this Subject have omitted: But which, I presume will be very practical and useful; and in doing thereof, shall discourse on these Heads.

1. What Exchange is.

2. The Subject of Exchange.

3. The Par of Exchange.
4. The Course of Exchange.

5. Some Reasons of the Rise and Fall of Exchange.

6. Give some Rules for keeping the Course mear the Par.

L Exchange of things, is to give one thing for another; which is likewise called Barrer or Commutation; But there the things exchanged are always of a different Species, as Wool for Cloath,

Cloath, Silk for Stuff, &c. and when one is received, the other is deliver'd; or in ordinary Buying and Selling, Money is given for Goods, or Goods for Money; which is sometimes given the one immediately for the other; and sometimes the Money is paid by Contract, a certain time after the Goods are deliver'd. which is call'd Buying or Selling on Credit, or at Time: But Exchange (according to the ordinary Notion in Merchandizing). is to give Coin for Coin, i. e. the giving a Summ of Money in. one place for a Bill, ordering the Payment of the like Summ. (according to the Value agreed on) in another place. Now for often as these two places are in different Countries, the Exchange is Foreign, otherwise Inland: Of which, and of several Customs us'd among Merchants, with respect to Drawing and Accepting these Bills, and Paying and Receiving the Value therein, you have a large Account in Section the first of Chap. 11.

II. Money (the Subject of Exchange) and Commerce are inseparable Companions; (of which we had too great Assurance in the late Regulation of Coin, where Trade decreased, as the Quantity of running Cash; tho according to the Opinion of the Ingenious, Trade was first carried on without Money, every one being willing to give such Commodities as they were possessed of, for those of which they stood in need.

2. But because, by this means, Men could not at all times fit others occasions, it became necessary that the Receiver should deposit a Pledge with the Deliverer, to supply his Need on the like occasion. And the most proper Material for that was found to be Silver, because of its great Value among Men, not only by reason of its natural Perfections, as Cleanness, Unaptness to rust, Ponderousness, on but also of its being less common than other Metals, which gave it a just esteem among Traders, and was therefore pirch'd upon to be a Universal Pledge or Measure of all Commerce and Traffick which we find, in Sacred History, was so about 488 Year after the Flood.

3. But, to prevent the Receiver of this Silver being imposed on by the Deliverer incorporating too great a quantity of a Baser fort of Metal with his Silver (which is not easily discovered by the Eye) it became necessary the Fineness of Silver should be afcertained by every Government, and to have cere

tain Quantities at certain Values.

## 126 Of Mency, the Subject of Exchange.

4. And to fave the trouble of Weighing and Assaying every Piece receiv'd, which would greatly obstruct the Dispatch of basiness, by which Men ordinarily grow Rich: It became customary for Princes to cause such and such Stamps to be given to the several Denominations or Quantities of Silver, to be a Voucher of the Weight and Fineness thereof, which was call'd Coin, Monera or Money, and is the Condition we have it in at this day; the Antiquity of which stamping Money, we can trace no farther back than the Romans Time, among whom the Ingenious Mr. Vaughan of Greys Inn tells us Services Tulkins was the first.

s. I proceed now to shew the Weight and Fineness of our own Coin here in England, and shall in the next Article or Head, shew how the Coin of other Nations agrees in Value thereto; as being something more brief and less troublesome for the Reader to apprehend, than to insert the Weight and Fineness of Fo-

reign Coin, which I have done elsewhere.

Money or Utenfils, made it necessary to harden the same, by mixing a small quantity of baser Metal therewith, as Copper or Brass; which is therefore called Allay; and Money is said to be more or less sine, in proportion to the quantity of Allay intermix'd with a certain quantity of sine Silver; Thus of a pound of Bullion; if two ounces thereof be Copper, & the Bullion is said to be 10 Ounces sine, and is not so Valuable as that which is 11 Ounces sine, i. e. that has but 1 Ounce of Allay in it.

7. Hence it is evident, that English Silver being 11 3 2 dw fine, i. e. having but 18 dw. of Allayin 12 Ounces of Bullion, a Pound whereof is more Valuable than a Pound of that which is but nine. Ounces fine, as the French, &c.

8. English Silver is call'd Sterling (as most believe from the rame of the first Coiners thereof, who were sent for from the Eastern parts of Germany by King Richard I: and were called Easterlings.) And all Bullion, having but 18 div. of Allay in 12

Ounces of Bullion is said to be Sterling fine.

9. The Fineness of English Gold is diffinguish'd or ascertain'd by the Caract, viz. 12 Ounces of Bullion is divided into 24 equal parts, each of which is one Caract, and each Caract into 4 Grains; of which 24 Caracts, two are Allay; so that there is 22 Caracts of fine Gold, and 2 Caracts of Allay to the Standard of Gold in England, which is 22 Caracts fine.

ro. English Gold and Silver are weigh'd by Troy-weight, viz. Pounds, Ounces, dw. (or Penny weights) and Grains; and according to the common Price of Gold and SilverBullion at prefent, (which on extraordinary occasions does sometimes rise and fall, but not as other things do) the Weight and Value is as follows.

Of Silver Bullion.

1. s. 1. qrs.

The Grain = 00:00:00:00f

D. weight = 00:00:03:00

Ounce = 00:05:00:00

Pound = 01:00:00:00

#### Of Gold Bullion.

l. s. d.

The Grain = 00:00:02 
D. weight = 00:04:00 
Ounce = 04:00:00 
Pound = 48:00:00 -

of Weight of Bullion; I come next to shew the Value, Fineness and Weight of our Silver and Gold Coin, viz.

Silver Coin calculated according to the Standard of the Mint, C12 Ounces of Bullion being Coined into 62 s. at which Rate the Crown piece is 19 dw. 8.51612903225, &c. Grains) is as follows.

Current Va.	Value as Bulli-	Weight of	•
lue of Coin	on at 5 s. per	Coined Pie	Fineness.
ed Pieces.	O her be.	, ecs.	
s. d.	s, di gr.	dw. gr.	
5:00	4:10:01	19:08;	٠ ـ .
2:06	2: 5:01	9:16	. 3 dw.
1:00	0:11:23	3:20,	11:02
0:06	0: 5::3:	I: 22	
0:04	0:03:33	1:06:2.	<u>:</u>
0:03	0:03:34\$	0:23-	·•
0:03	0:01:313	0:15#	•
10:01	0:00:3	0:07:1	

## 128 Of Money, the Subject of Exchange.

Gold Coin Calculated according to the Standard of the Mint, 12 Ounces of Bullion being Coined into 44½ Guineas; at which rate the Guinea will weigh 5 dw. 9.4382, &c. Grains, and the other Pieces are for Weight and Value, according to the sub-sequent Table.

Piecee	rantValue of Coined Pieces.	Standard Rate.	Value as Bullion at 4 l. per Ounce.  1. s. d. qr	Coined Pieces.	Finencys.
The 5 Guin. Piece The 4 Guinea	1:01:06 5:07: <b>0</b> 6 0:10:09	1:00:00 5:00:00	1:01:06:3 5:07:10:1 0:10:09:1	0:05:093 1:06:23 0:02:16 <del>13</del>	>22 Ca- ractsor
Car. or fac. broad? 20 s. Pieces  fac. broad Piec.?  with the Scept.	1			3	

There are other Denominations of English Gold, as the Angel Gold, or Rose Nobles, 23 Garacts, 3. Grains fine; and the Pieces of different Weight, from 7 dw. 6 gr. to 9 dw. 18 gr. as also the Sovereign Gold, or 20 s. Pieces of H. VIII. but 20 Caracts fine, which I think it not proper to say more of, there

being few or none to be seen Current now.

12. There are also made Current the French and Spanish Piftoles about \( \frac{1}{2} \) a Grain worse than Crown Gold, and the Weight
being 4 dw. 8 gr. the Value thereof, at 4 l. the Ounce, is 17 s.

4 d. each, but they have through Custom long passed Current
among us for 17 s. 6 d. tho' their real Value in proportion to
Guineas at 20 s is but 16 s. 1\( \frac{1}{2} \) d. but if we allow them in proportion to our Current Value, and give them the same privilege (which Foreign Nations will not do in taking our Money)
then in proportion to a Guinea at 21 s. 6 d. the Pistole should
go but for 17 s. 4 d. exactly; for as 5 dw. 9 gr. the Weight of 2
Guinea is to 21 s. 6 d. its Current value, io is 4 dw. 8 gr. to
17 s. 4 d.

It's true, the justest measure in taking and paying Foreign Coin, whether Gold or Silver (when the Fineness is known) is to be govern'd by the Price of Gold and Silver Bullion, which might once in a Week be affixed on the Exchange, or publish'd in the Gazette, and at the Rate of Gold Bullion from 31. 10 s. 6041. the Ounce, Pistoles are in Value as follows, supposing

nem

# Of the Proportions between Gold and Silver. [129]

them of equal Fineness with Crown Gold; above which Rate or Proportion they ought never to be Current, so long as Guineas do not go at above 21.6 d. But if we value Pistols at a greater Rate than our own Guineas, we shall have little but the former Current.

The Value of an Ounce of Gold, being	The Span or French Pi- fole is worth
1. s.	s. d.
3:10	: 15 : 2
3:11	. TS: 41/2
3:12	: 15 : 74
3:13	: 15 : 93
3:14	: 16 : 04
3:15	: 16 : 24
3:16	: 16 : 5 1
3:17	: 16:8
3:18	: 16 : 10‡
3:19	:17:14
4:00 l	: 17:4

Note also, that in proportion to Guineas passing Current at 211. 6. the broad Gold is worth but 231. And a Jacobus 251.

But fince my writing what is above; Pistoles are by a Proclamation, Dated in January 1707. not to go Current at more than 175. nor are they worth that, so often as Gold Bullion is under 2 l. 195. o. per 3, as may be seen by the foregoing Table; and I am of Opinion, we shall have few Current, because as they come in to the Bankers, the heaviest will probably be Coin'd into Guineas, there being a small matter to be got thereby, Gold being at 4 l. the 3, and the Coinage no Charge.

14. They that consider the proportion between Gold and Silver, (which may likewise be gathered from the foregoing Table) ought necessarily to mention whether of the Analogy of Weight (Bulk for Bulk) or of Value, and at what price they rate each; whether that price be of fine Gold or fine Silver, or allay'd; and whether they mean the price as Bullion at present, or at the Standard Rate, otherwise their Calculation must be uncertain, and they leave the Reader in the dark; therefore to make this matter plain, I have inserted the Proportions following, being all the Cases I could think useful.

[130] Of the Per of Exchange.

1. The Weight of fine Silver to that of fine Gold (Bulks alike)

s, As 1 to 1.82896, &c.

2. Fine Silver to fine Gold, calculated from the Standard Rate, the Pound of fine Gold being worth 48 l., 10 s. 10 d. and fine Silver 3 l. 6 s. 11½ d. is,

As 1 to 14.49, &...

3. Sterling Silver to Crown Gold at Standard Value of 44£ Guineas the Pound of Gold, and 3 L 2s. the Pound of Silver, is, As i to 15.431, &c.

4. Sterling Silver at 5., the Ounce to Crown Gold at 41, the

Ounce is, As 1 to 16.

5. Sterling Silver to Crown Gold, according to the now current Value of Silver and Gold 129.4 Grains of Gold passing current for 21 s. 6 d. and 19 dw 8: Grains of Silver running at 5 s. is,

As 1 to 15.4354.

6. Fine Gold to Crown Gold, is in Value,

As 1 to 9167, &.

7. Fine Silver to Sterling Silver, is in Value,

As 1 to .9260, &c.

And from these several Proportions may be deduc'd many useful things relating to the Weight, Fineness and Valuation of Gold and Silver. But such as desire to see the Proportions that have been formerly between Gold and Silver (as to Value) both in this and other Nations, may read the account in Lex Mercat. page 213, &c. Mr. Vaughan's Coin and Coinage, p. 19; and especially Mr. Lownds's accurate Report thereof to the Lords of the Treasury, p. 35 to 59 of his Essay for the Amendment of the Silver Coin; but I think none of these contain any thing of the Nature with those above.

HII. I am next to consider the Par of Exchange, and to know what is meant by it, this will be easie, if you know what it is to exchange, for when he to whom a Bill is payable receives of the Acceptor suft so much Money in Value (Weight and Fineness consider'd) as was paid to the Drawer by the Remitter, then the Exchange is according to Par, viz. Par pro Pari, or Value for Value. But before it can be known whether an English Merchant in his Exchange to any foreign Place or Country gains or loseth by that Exchange, by paying less or more than the Par of the Money of the Place he exchangeth to (which he often does considerably, as will appear by the following Sections of this Chapter) he must necessarily know the Value of the foreign Coins.

# Of the Par of Poreign Coin in Sterling. [131]

in Explife Money, for which Reason I have inserted the Tables following, which contain the Values (according the best Account I can procure) at least of all those Denominations of Foreign County I can procure at least of all those Denominations of Foreign County I can procure at least of all those Denominations of Foreign County I can be seen to be a second of the county I can be seen to be a second of the county I can be seen to be a second of the county I can be seen to be seen

reign Coin, in which Exchanges are made with England.

2. The Denominations England exchangeth in with other Countries, are in Pounds with Rotterdam, Amsterdam, Antwerp and Hamburgh; in Pence with Paris, Cales, Madrid, Genoa, Legborn, Venice, and all other parts of France, Spain and Italy; in Shillings and Pence with Lisbon, Oporto, and the rest-of Portugul; and by the Hundred Pounds with Ireland. And in what Denominations they exchange with us, you will see in the next Section.

3. The Value of Foreign Coins, real and imaginary, in Ster-

ling, according to the reputed Par, is as followeth.

	Eng	Money.
-	5.	di q
	I Denier is Sterling————————————————————————————————————	00:0078
French	) 12 Deniers, or 1 Soulz is——oo:	०० : ०३३
Coin.	)20 Soulz, or 1 Lievre is——o1:	06
	( 3 Lievres, or 1 Crown French is—04:	o6 ·
	∫ 1 Stiver is Sterling——— ∞:	01 <del>1</del>
	c Stivers is oo :	06
•	5 Stivers is 00: 6 Stivers, or 1 Shilling Flemish is 00:	07.
Holland and		00
Flanders	33 Shillings 4 d. Flemish is Sterling 20:	00
Coin.	Gilder, or 20 Stivers is -02:	00
Com.	1 Zealand, or common Doller—03:	00
	r Duccatoon——of:	
	r Specie Doller———————————————————————————————————	
	C 1 Specie Doller	00
	1377 Malvadies of Spain is Sterling oo:	
	372 Malvadies, or I Ryall is —oo:	~73~~
- · · · · · · ·	8 Ryals, or a Piece of Eight Sevil iso4:	064913
Spanish :	8 Ryais, of a Piece of Light Seon 1804;	06: 11000
Coin.	1 Piece of Eight Mexico is -04:	06 ; 1,39
	Ditto Peru is04:	OS : I
	Ditto Pillar is ———————————————————————————————————	o6: 3::::
	12.42 Rees of Portugal is Sterling—00:  1 Mill Ree, or 1000 Rees is Sterl. 06: 1 Testoon is	Oτ
Portugal)	Mill Ree, or 1000 Rees is Sterl of	081
Coin.	Teffoon is	
1,1	S2	Italy
	, , <b>3 %</b>	Timin

# Italy and I Lievre at Leghorn is Sterling—00: 09 Italy and Venice I Ducat de Banco at Venice—04: 04 Coin. I St. Mark—02: 10 I Palermo Florin is 6 Tari, or—02: 06 German Coin. I Old Rix Dollar of the Empire 04: 06 German Coin. I Gilder of Norenburg is—07: 01 The Fine-Pillar Nesson Sevil Piece of Mexico One II: 02 I Mexico One II: 04 And the weight 4: 6: 1:06 II: 04 And the weight 4: 6: 1:06 II: 04 II: 05 II: 05 II: 06 II: 06 II: 07 II: 07 II: 08 II

I have been more exact in the Calculation of the Value of these Pieces of Eight, by reason they are so universally used in most Foreign Trafficks.

4. And as there is a Par of Money, so there is an Equation of Weights and Measures with the English, which is very useful in knowing how to value Foreign Goods, by reduing the Quantity to English Weight or Measure, and the contrary to value English Commodities, by reducing them to Foreign Weights and Measures, for which purpose I have inserted these Tables.

By a Proclamation, dated June 18. 1704. for ascertaining the Current Rates of Foreign Coins in Her Majesty's Colonies and Plantations in America, confirmed by Act of Parliament Anno 6. Ann. the same s as followesh.

Weight	True Value	Current Value
dw. gr.		s. d. q.
Sevil Pieces of Eight (old Plate)—17: 12	4:6	6:00:0
Ditto new Plate 14:00	$3:7\frac{1}{4}$	4:09:23
Mexico Pieces of Eight17: 12	4:6	6:00:0
Pillar Pieces of Eight 17:12	4:64	6:00:0
Peru Pieces of Eight (old Plate)-17:12	4:5	5:10:23
Cross Dollars———————————————————————————————————	4:44	5:10:13
Duccatoons of Flanders—20921	5:6	7:04:0
Ecu's of France (or Silver Lewis)—17:12:	4:6	6:00:0
Crusadoes of Portugal————————————————————————————————————	2:10	3:09:23
Three Gilder Pieces of Holland—20: 7	5:24	6:10:33
Old Rix Dollars of the Empire—18:10	4:6	6:00:0

The Half, Quarters, and other Parts, in proportion to their-Denominations; and light Pieces in proportion to their Weight.

And to remedy the Inconveniency which was caused by the different Rates, at which Pieces of the same Species were Current. It was order'd by the faid Proclamation, and confirmed. by the faid Act; That after January 1. 1704: no Sevil, Pillar, or Mexico Pieces of Eight, tho of full Weight as above, shall be: received or paid at above 6 s. per Piece, and the Half, Quarters, and other leffer Pieces, in proportion. And the Currency of all. the other Pieces abovemention'd, not to exceed the same proportion.

And the said Act enjoins, That if any one shall receive, or pay any of the Pieces for more than as above, they shall forfeit

101. and fuffer 6 Months Imprisonment.

Note, The Proportions above (of the current Value) are computed from the intrinsick Value of the Pieces of Eight, Sevil or Mexico.

# [134] Foreign Weight and Measure in English.

One Eli En	eliß is.	r Pound Aver-
IN Flanders as at Antwerp-1.66	Elle	their 16.
2 Bridges 1.64	Ells	a.96
In Holland as at Amsterdam, Linnen 1.69	Ell	0.98
In France as at Paris - 0.95	Aulns	
Lyons 1-016	Aulns	0.89
	Aulns	1.07
Rouen	Aulns-	
In Italy as at Venice 1.96	Braces —	0.94
Leg born 2.0	Braces -	1.28
	Braces —	I-37
In Germany as at Bremen 2.03	Elis ?	0.92
for Ozinbrig Linnen 1.05	Ells	0.92
at Vienna for Linnen - 1.28	Ells 2	
Woollen - 1.41	Ells S	18,0
at Leipsig for Linnen - 1.75	Ells 7	
Woollen — 3.0	Elle	
Denmark as at Hamburgh for Linnen 2.07	Ells Ž	
Woollen — 2.03	Ells \$	0.92
In Poland as at Dantzick 2.03	Ells or .017 shock	s——— 1.16
Cracow 2.03	Ells or .017 shock	
In Sweden as at Stockbolme 2.07	Ells	1.16
2.07	Ells	f.16
Narva 2.07	Arfins	I.16
In Portugal as at Lisbon for Linnen 1.025	Vares ?	. 00
Woollen — 1,66	Covados 5	0.88
In Spain as at Barcelona 0.71	Canes -	80.1
Malaga 1.043		
Cadi? 1.35	Vares	
In Muscory as at Archangell, &c 1.61		\$ 0.027 Pood. 2 0.0027 Bereove
How our English Yard agrees with other	er Country Meafu	

How our English Yard agrees with other Country Measures, See [Yard] in the Dictionary; and the Values of most other Weights, Measures, Coins, Sc. see here mentioned may be found there.

The Use of this Table, is,

Admit I would reduce 11465 Aulns of Lyons into Ells English. By the Table I find that 1.016 Auln is 1 English Ell, therefore Tay.

Auln Ell Aulns Ells 1.016 1:: 11465 11284.44 Answer.

r. Tables of Turkey Weights, of which the proportion between a Turkey and English Dram I received from a Book-keeper to a Turkey Merchant, which I have reduced to English Weight, as followeth.

A Table

A Table of Aleppo Weight. Drams Drams Aleppo English English Rottello = 720 = 1260 = 4:14:12 r Rottello = 700 =1227 = 4:12:111 Rottello = 680, =1194 = 4:10:16 =68000=119221=465:11:15x Kintall A Table of Smyrna Weight. English Smyrna English Drams. Drams. 0**4.** 0.57= 1 . ot = 00 : 00 : OI = 00:00:012 1.00= 1.753 146.0 = 256.0OI : 00 : 00 r Rottello = 180 or: 03:11 315 1 Oke of 400 **=** . 701 2:11:12 1 Oke of = 25Q = 418 1:11:06 =-1 Oke of 120 210 0:12:02 = 123 : 02 : 09 r Kintall =18000 =31545 1 Kintall =17600 =30844= 120 : 07 : 121 Batman = 2400 **4207** 16:06:15 = = 14021 Chique = 800 = ኖ: 07 : 10<sup>4</sup>

6. The Confirmation and Use of the Table of Alleppo Weight.
The true Alleppo Rottello is 720 Drams, and is equal to 4 Smyrms—Rottelloes, and by this Rottello all Goods of Alleppo are weigh'd.

By the R of 700 Drams, white Silk is only weighed.

By the R of 680 Drams, Perfia Silk, as Legee and Ardass are

paid for, but they are weighed by the R of 700 Drams.

The Reduction of these Weights will be easy to all that understand but Multiplication and Division; for any Number of Smyras Re (or Rottello's) are reduc'd to Aleppo Re by dividing by 4; and the Alleppo into Smyras by multiplying by 4. Or the Re of 720 Drams are reduc'd to those of 680, by multiplying the given Re by 720 or 18, and dividing by 680, or by 17 respectively, and the contrary for reducing Re of 680, to those of 720 Drams. For as 680 to 720, so is 17 to 18.

7. The Construction and Use of the Table of Smyrna. Weight.

By the Oke of 400 Drams are weighed Cloves, Mace, Pepper, Benjamin, Gum-Arabick, Sea-Horfe Teeth, Galbanum, Ginger, Indigo, Gum-tragant, Vachetoes, White Cordefant, Scammony, Wormfeed, Coucheneal, Salfa Parella, Nutmego, Cinnamon, Rhubarb, Senna and Cassa.

By

## [136] Use of the Tables of Turkey Weight.

By the Oke of 250 Drams is weighed Opium. And by that

of 120 Drams, Saffron.

There are 2 forts of Kintals; The first containing 47 Okes of 400 Dram, seach or 18000 Smyrna Drams By which Kintal are weighed Gauls, Alum, Cotton-Yarn, Lead, Brazile-wood, Valonia Logwood, Steel, Sugar, Bees-Wax and Gum Almonds.

The second Kintal contains 44 Okes of 400 Drams each, or 17600 Smyrna Drams, by which they weigh Cotten-Wool, Sheeps

Wool, Tin, Box-wood and Anise-seeds.

The Batman contains 6 Okes of 400 Drams each, or 2400 Drams, by which they weigh Legee, Ardassand Sherbafee Silk.

The Chique contains 2 Okes of 400 Drams each, by which

they weigh Goats-Wool.

The Use of the Table of Smyrna Weight.

If you would reduce any kind of Merchandize, which you have weighed to you in this Weight, either into some other De-

nomination of Turkey, or into English Weight, this is the

General Rule Multiply the Number given by the Tabular Number answering a Unit of the same Denomination, and divide the Product by the Tabular Number answering to a Unit of the Denomination, into which you would reduce the given Number, and the Quotient is the Answer: Always observing to multiply and divide by the Smyrna Weight, when you would reduce into Smyrna Weight. And to multiply the Number given by the English Drams in a Unit of that Denomination, and afterward reduce those Drams into Pounds.

Example.] In 470 Okes of Saffron, each 120 Drams, how

many Rottello's?

Rule Multiply 470 by 120, and the Product divide by 180.

and the Quotient is Rottello's 2121.

47

Or if you would reduce the 470 Okes into Pounds English; multiply the same by 210, English Drams in that Oke, and the Quotient is English Drams for Answer, which reduce into English Pounds, thus;

470 Okes given. 210 Drams in the Oke.

94
76) 98700 Drams Engl. (6168 (389:08:12 Answer.
12 Drams rem. 8 gs. rem. 8. As

8. As to calculating the Par of Money; tho' there is more difficulty in this matter, than most People imagine, yet I do not find that any one has discuss'd it so plain to a mean Capacity as might be wish'd; but since it is a thing that ought to be certainly known and understood, because of great use among Merchants, I have for their Sakes (for whose Service this whole Treatise is calculated) made the thing as plain as I can, as follows.

9. The first thing then to be consider'd, is, that all toreign Coin is Bullion to us, and ours Bullion to them, so that the extrinfick Value is not to be regarded in computing the Par of Ex-

change.

10. The second thing considerable, is the Fineness of our own Coin, and the Weight and Fineness of the Foreign, which we are to receive in Exchange; and this Knowledge of the Foreign must be acquired either to be so by the Experience of some authentick Author, or by the Merchants actual Assaying and Weighing of some of the same Pieces.

Thus for Example. Admit it were required to know how much Sterling Bullion or Coin may be given for 1000 pieces of Eight Sevil.

The Fineness of our own Coin I know is— And the Fineness of a piece of Eight, I find to be—11:3

And its Weight 17 dw. 12 grs.

Or the Weight of 1000 pieces I find ————— 875: 0 11. The third thing is to know how many Ounces of Silver 11 Ounces 2 dw. fine, is equal to 875 Ounces of 11 Ounces 2 dw. fine, which is found by fingle indirect Proportion, thus,

> dw. 11: 2. 875.:: 11: 2. 878.94144 Answer.

Here I find that I may give 878.94144 Ounces of Bullion 11 Ounces 2 dw. fine, for 875 Ounces of Bullion of 11 Ounces; a dw. fine, (or for 1000 pieces of Eight Sevil) which if I pay in Coin, I must for the 1000 pieces of Eight, pay 2271. 1 s. 21 d. Sterling, for,

> Grains l. Sterl. Grains 1858.0645 . 1:: 421891.89 . 227.359.

That is to say; as £858.0645 (the Grains in 1 pound Ster-Fing) is in proportion to 1 pound Sterling;

So is 421891.8912 the Grains in 878.94144 Ounces of Bullion 11 Ounces 2 dw. fine, which are equal in Value to the 1000 pieces of Eight.

To 227.059 l. Sterling, or 227: 1 s. 024.

But so often as I can buy 878.941 Ounces of Bullion for less than 227 l. 1 s. 24 d. (which I can always do so often as Sterling Silver is under 5 s. 2 d. per Ounce) so often I gain, by making my Exchange in Bullion: As suppose I can buy Bullion for s. 1 d. per Ounce, at that Rate the 878.941 Ounces (which I am to give for the 1000 pieces of Eight) will fland me in 222 1. 7s. II d. which is less than 227 l. I s. 24d. (the Sum I pay Exchanging in Coin) by 3 l. 13 s. 24 d. which is my Gain by exchanging in Bullion. And thus in Exchanges the Par of Money and Bullion ought to be confidered, as well as the Par of the

Domestick and Foreign Coins.

12. But tho' the foregoing Rules contain a true Method of calculating the Par of Money, yet fince the Price of Exchange is generally agreed on, that so many Pence or Pounds Sterling shall be paid for a Piece of Eight, or other Denomination of Foreign Coin, it is also useful and very satisfactory to know how much Sterling Money each of those Foreign Pieces are worth, and for this reason I have in the foregoing Table, under Article the ad of the general Head, of the Par of Exchange, shewed the true Value of each Piece of Foreign Coin; so that by inspection the Merchant may know (when a Bill is drawn on him, by feeing the Price Current of Exchange) whether that Price (called the Course of Exchange, which I shall speak to next) be above or below the Par, and confequently whether himself or the Nation gain or lose thereby.

IV. The Course of Exchange is the current or running Price of Exchange to all Places where there is any, which is fometimes above, fometimes below the Par, according as the same is influenced by the Accidents and Circumstances of Trade and Nations, and this differs only from the Par in this: That the Par of Exchange shews what other Nations should allow in Exchange, which is certain and fixed. But the Course shews what they will allow in Exchange; which is uncertain and contingent.

2. And the there are Tables of the Course of Exchange published once or twice every Week, yet I find the generality of Persons ignorant of the meaning thereof, which induced me

to explain the same as followeth.

The Course of

Anchange Oc
tob. 20.-96.

Amsterdam—31 s. of d. Flemish for 1 l. Sterling—33 s. 4 d. Flem.

Resterdam—31 s. of d. Flemish for 1 l. Sterling—33 s. 4 d. Flem.

Antwerp—31 s. of d. Flemish for 1 l. Sterling—33 s. 4 d. Flem.

Antwerp—30 s. of d. Flemish for 1 l. Sterling—33 s. 4 d. Flem.

Hamburgb—30 s. of d. for 1 l. Sterling—32 s. o

Madrid — 56½ d. Sterling—for 1 piece of 8 Mex. 54½ d. Sterl.

Gales——62½ d. Sterl.——for 1 piece of 8 Mex. 54½ d. Sterl.

Genos——62½ d. Sterl.——for 1 piece of 8 Mex. 54½ d. Sterl.

Lagborn—62½ d. Sterl.——for 1 piece of 8 Mex. 54½ d. Sterl.

Venice——59½ d. Sterl.——for 1 Ducat——52¼ d. Sterl.

Paris ——51 d. Sterl.——for 1 Crown French—54 d. Sterl.

Lisbon——6s.6d. Sterl.——for 1 Millree——6s.08½ d. Sterl.

O-Porte——6s.5d. Sterl.——for 1 Millree——6s.08½ d. Sterl.

Note, That Bills are usually drawn to and from Dublin in Incland, payable at 21 Days. And the Exchange sometimes 8, 9,

10, &c. Pounds per. Cent. allowed for Return.

The Table is so plain, it needs no Construction, for it shews that on the 20sh of October, 1696, the Course of Exchange to Amsterdam was 31 s. 6 d. Flemish, for 1 pound Sterling, which is 1 s 10 d. Flemish per Pound loss to us, it being so much under the Par, or 22 s. 4 d. and so of the rest.

# 3. A TABLE Shewing how much Sterling Dollars, Ducats, Pieces of Eight, Flemish-

	At	At	At	At	At	At	At	At	At
	48.d.	49 d.	50 d.	5.1 d.	52 d.	53 d.	54 d.	55 d.	56 d.
	per ps.		,	,					
	1.	1.	1.	l.	l.	1.	ı.	I.	ı.
	000.2	JOO-204	000.208	000-212	000.217	000.221	000.225	000-229	000.233
fi 1	000.4	200.408	000.417	000.425	000-433	000.442	000.45	1000.458	000.467
<u>.</u> 3	000.6	000.012	000.012	000.637	000.05	000.007	000 075	000.087	000.7
<b>30</b> 4	8-000	200.810	000.833	000-05.	900-867	000.003	000.9	000.917	000-933
roreign Roceign	001.00			001.062				001.140	001.107
4	001-2	001.225	001.25	001.275	001.3	001.325	001.35	001.375	001.4
	001-4	001.429	001.458	001.487	001.517	001.540	001.575	001.004	001.633
8 g	001.6	001.633	001.671	001•7 001•912 002.125	001.733	001.707	001.8	001.833	001.867
8 8	001.8	201.837	,001.875	001.912	001.95	001.937	002.025	002.002	O02.1
2, 10	002.0								
20	004.0	004.083	004:167	004.25	004.333	004-417	004.5	004.583	004.667
30	0060	006.125	006.25	006.375	000.65	006,612	006.75	<b>006.875</b>	007.0
	,008°C	008.167	008.333	008.5	008,667	008.833	009.0	009,167	009-333
50	010.0	010.208	010417	010.625	010.833	911.042	011.25	011.458	011-066
60	012.0	012.25	012.5	01 <b>0.</b> 625 01 <b>2.7</b> 5	013.0	013.25	013.5	013.75	014.0
70	0140	014-202	014.682	014.875	015.167	324.216	014.74	016.042	016.333
80	016.0	016.233	016.667	017.000	017-233	017.666	018.0	018.333	018.667
90	018.0	017-375	018.75	019.125	019.5	<b>Þ19.87</b> 5	20.25	020.625	021.0
100	020.0	020.417	020.833	021.25	021.667	<b>022.0</b> 83	022.5	022.917	023.333
200	016.0	040.834	041.667	042.5	043.333	044.167	045.0	045.833	046.667
	060.0	061.25	062.5	063.75	065.0	066.25	067.5	068.75	
	0800	081.567	082.222	085.000	086.666	088.333	၁၀၀.၀	001.667	003-233
	100,0	102081	104-169	icéas.	108-222	110417	112.5	091.667 11 <b>4.583</b>	116.667
	120.0	122.5	125.000	127.5	130.0	132.5	135.0	137.5	140.0
	140.0	142.917	145.833	148.75	151.669	154.583		160.416	163.333
	160.0		166.667			176.667		183.333	
00	180.0	182.75	187.5	101.24	105.0	198.75	202.5	206.25	210.0
100	200.0	204.10	208.333	212.5	216.666	220.833	225.0	229.167	
	0400.0	408-224	416.667		132.322	441.667	450.0	458.333	466.667
400	- <del></del>	7~~,3	CT. 02.04/	T	113,122	7,7	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	172.22	, , , , , , ,

# Money is contain'd in any Number of Crowns, Pounds, &c. from 1 to 2000.

	At	At	At	At	At	At	At	At	At	Ì
	57 d.	58 d.	59 d.	60.£	33 5.	d. 4	3 d.	₹ d.	7 4	
1	per . ps.	per ps	per ps.	per ps.	per ps.	per ps.	per <i>ps</i> .	per ps.	per ps	
				[						
١.	1.	L	1.	1.	h	1.	1.	1.	1.	ŀ
fig 2	000.235	000.242	000.246	000.25				00.003		
18 2	000-475	000.483	000.492	000.5	001.212			00.005		!
	000.712							00.008	7	Ĺ.
나왕 <u>4</u>	000.95				002.424			00.010		1
1.9	001.187							00.013		r
F- 6	001425							00.015		
0 7					004.242			00.018		
	001.9				004.848	•	1	00.021		
					005.454			00.024		
_	002.375				000.000			00.026		•
20	004.75	004.833	004.917	7005.0	012.121			00.052		
	007.125				018.181	00.032	00.047	00.078	00.109	ı.
		009.667			024.242			00-104		
	011.875				030.303			00°130		
. 6	0014.29	014.5	214-75	01.4.0	036.364		· I ————	00.156	-	
7	016.62	016.91	017.20	8017.5	042-424	00.073	00.100	OO. 182	00.251	ŀ
8	019.0	019.33	3619.66	7020.0	048-485			00.208		
9	021.37	021.75	022.12	5022.5	054-545			00.234		
10	0023-75		7024.58		060.606	00.104	20.156	00.260	00.365	ŀ
20	0047.5	048.33	3049.16	7050.0	121-212	CO.20	00.312	00.521	00.729	ľ
30	0071.25	072.5.	073.75	075.0	181818	90.312	00.469	00.781	01.094	1
	00950	1000.00	7 28.33	3 100.0	242.424	00.417	00.62	01.041	01.458	ı.
1.50	a 18.75	120.83	122.91	7 125.0				01.301		
60	0 142.5	145.0	147.5	150.0	363.636			01.561		
70	0166,25	169.16	7172.08	3175.0	424-242	00.729	01.09	01.822	02.552	ŀ
80	0 190.0		3 196.66	_ (	484.848	00.833	01.240	02.08	02.017	J.
	0213.75	217.5	221.25	225.0		00,93	01-40	02.34	03.281	1
ióc	0237.5	1241.60	7 245.83	3 250.0	606.060	01.04	01.562	02.60	03.646	5
	0475.0	1483.33	349 f. 66	7/5000	1212.21	102.08	303.12	05.200	07.20	ı
-	-	بالماست وزور		<del></del>						<b>.</b>

The Construction of the Table foregoing.

The first Column toward the less-hand is any Number of Cr. was, Dollars, Ducats, Piecesoff Eight, Menish-paped, or any other Denomination of Foreign Coin, whose Value is as expressed at the Head of each Column; the 13 Columns next, shew the Sterling Money that any Sum of Foreign Coin is equal to, at any Rate, from 48 d. to 60 d. Sterling, for each Piece of Foreign Coin. The 5th Column from the Right-hand, sheweth how many Pounds Sterling are contained in any Number of Flemish-pounds, from 1 to 2000, at the Rate of 33 s. Flemish, for 20 s. Sterling. The four Columns next the Right-hand, shew the Amount of any Piece of Coin at \( \frac{1}{2}, \frac{

The Calculation of the Table.

Multiply any of the Numbers at the Head of a Column by any of those in the Column next the Lest-hand, and the Product is the Tabular Number answering the said two Numbers in Sterling Money, except the Column of Flemish Pounds, which is thus realculated:

As 33 Shillings Flemish,

Is in Proportion to 1 Pound Sterling;

So is 20 Shillings Flemish

To .606060 1. Sterling, which Number being multiplied by any of the Numbers in the Column next the Left-hand, produces the respective Number in Sterling Money, answerable to the aforesaid Number in the Left-hand Column, supposing them Flemish Pounds.

The Use of the Table in Casting up Bills of Exchange.

Admit you would know how much Sterling Money is conmain'd in 1000 Dollars, each 60% d. Sterling.

Look for 1000 in the Column next the Left-hand, and in a right Line toward the Right-hand, under 60 d. is 250.0 l.

Then look under \( \frac{1}{2} \) d. and you find 1.042, which \( \frac{1}{2} \) doubled (for the \( \frac{1}{2} \) d.) is \( \frac{1}{2} \)

The Sum of which is the Answer, makes Sterling—252.084 t.

Note that if the Summ given of Foreign Coin is 1500, 1820, 2500, &c. you may take the Answer out at twice or thrice.

Reasons for the Rise and Fall of Exchange.

V. I have hinted before, that there are accidental or contingent Causes of the Rise and Fall of Exchange, and these Causes

are either general or more particular

2. The Cause in general of the Fall of Exchange is, when any thing happeneth in a Nation or Place, that interrupts and obstructeth the Course of Trade, so that it cannot be carried on in fo good Order, or in fo great Quantity in the Gross, as it formerly used to be, the contrary whereof maketh the Course of Exchange rife in favour of that Nation. Now these accidental Interruptions happening in one, two, &c. Places of a Nation or Countrey unknown to the rest thereof, gives Occasion for some to affert, that the Rife and Fall of Exchange is unaccountable; only, in truth, because they cannot survey and discern the circumstances of the whole Body of Trade so well as they can their own, or perhaps that of the Town in which they reside. But more particularly.

3. When the Ballance of Trade runneth against a Nation, i.e. when a Nation has more Occasion to pay Debts in foreign Parts, than they have to receive from thence; in this Case, the Course of Exchange will run low against such a Nation, which Ballance of Trade is only perceivable by its Effects, the greatest and most

visible of which is the raising the Course of Exchange.

4. Another Cause of the Exchange running low against any Nation is, when the Coin thereof is debas'd or diminish'd either in Weight or Fineness (as I have shew'd more at large in another Occasion) this we have lately had a Specimen of, when our coin'd Silver was so prodigiously clipt, that near 1 was diminimed. And coin'd Gold at 30 s. that was coined but at 20 s. the Dutch (and other Nations in like manner) allow'd but 26 and 27 s. Flem. for 20 s. Sterling, whereas now, since the amending our Silver, and lowering the Value of our Gold Coins, the Dutch have allow'd us (and other Nations proportionably), 35 s. for 20 3. Sterling.

5. The Rife or Fall of Bullion rifes or falls the Course of

Exchange.

6. When any Nation is oblig'd to maintain an Army out of their own Country, this will fall the Course of Exchange a-

gainst Tuch a Nation.

7. Sometimes Embargoes, fometimes contrary Winds, sometimes too great Encouragement of importing Foreign, and difcouragement of exporting Inland Goods, &c. lower the Course of Exchange, tho' not immediately, but by influencing the Thele Ballance of Trade.

## 136 Rules for keeping the Course of Exchange.

These Causes are sufficient to such as were ignorant thereof before, and for such as were not, they will as easily guess at the other Causes of the Rise and Fall of Exchange, as I can inform them.

VI. As the Prescription of fit and proper Kemedies do naturally result from a right Apprehension of the Cause of a Distemper or Irregularity; so do the Rules I am now upon, from the Causes delivered in the last general Head, which might be a sufficient Reason for me to leave every one to draw their own Consequences; yet because some young Tyroes might be misled, I shall give them what Assistance I am able in the matter.

2. The first Rule that may be given to keep the Course of Exchange as high as the Par, is to keep our felves from being indebted to Foreigners, which some would have done, by keeping a strict Account of the Ballance of Trade; but that being impossible, having never been done, nor never like to be, I rather advise, that every particular Merchant be obliged to take Care that his Exports be equivalent to his Imports, i.e. that he import no more of Foreign Goods, than what the Commodities which he exported, will purchase in the Foreign Markets, which would every Merchant do (tho' this would not difcover the gross Sums of the Value of the Exportations and Importations in the whole Body of Trade, which some have industriously sought-after, in order to know the whole Ballance,) yet it would keep us without a Ballance of Trade, or that it would not lie on our fide, which would certainly for the most part keep the Course of Exchange up to the Par-

3. A second Rule may be, that the Government take Care that no Money be made or permitted to pass Current, that is not according to the present Standard for Weight and Fineness, for it was on this Rock, of suffering base and clipt Money to pass, that we had like to have split very lately, and which had mise-rable Effects on Trade, and more particularly on the Course of

Exchange

4. A third Rule may be, That Embargoes be not laid on

Shipping outward, unless upon extraordinary Occasion.

5. A fourth Rule may be, That before any Commodity be prohibited or encouraged to be Exported or Imported, the most able and distrete field Merchants be consulted, who are most likely to discern the Consequences thereof, and that no Goods be prohibited, especially Exportation, without absolute Necessity.

6. That

<sup>15</sup>6. That due Encouragement be given to Importation of Gold and Silver Bullion.

#### §. 5. Concerning Interest of Money.

Among the various Uses of Money this of lending at Interests is said to be most unnatural, because remotest from the Design of its first Institution, which was for a Pledge in Buying, &c. but norwithstanding that, it is certainly no less advantageous both to Lenders and Borrowers; nor is it accounted by any but Enthusiastical Conceited Heads, a Use less warrantable than any other that is made of Money, Lending and Borrowing Money upon Interest, being a thing practised under most, if not all the Governments in the Trading part of the World.

2. The two material Things confiderable in Borrowing and Lending Money at Interest (to say nothing of Securities) is,

. 1f. The Rate of Interest.
- 2/f. The Time of Payment.

The Rate of Interest is the Sum given for the Use of 100 l. for one Year, and this is in some Places more, in other less, which is generally proportioned to the Plenty or Scarcity of Money and Trade, or Dearness and Cheapness of things: Thus in Italy and Holland the Rate is 3 l. per Cent. in Swedeland 6; France 7; Spain, Scotland and Barbadoes 10; Ireland 12, and Turkey 20 per Cent. from which different Rates the ingenious Sir Josias Child makes many curious Remarks in his Discourse concerning Trade, to which I refer the Reader that is inquisitive after the Policy of these Matters, this Book being chiefly design'd for Practice; and as for the Rate in England it is by Statutes made 12 Cer. 2. Chap. 13. 13 Car. 2. Chap. 14 not to exceed 6 l. per Centum per Annum, which because some People are ignorant of, I shall insert the Penalcy in the Act mention'd, viz.

Whereas the Abatement of Interest from Ten in the Hundred in former times, hath been found by notable Experience beneficial to the Advancement of Trade, and Improvement of Lands by good Husbandry, &c. And whereas in fresh Memory the like fall from 8 to 6 in the Hundred by a late constant Practice, bath found the like Success to the general Contentment of this Nation; as a visible by several Improvements, &c.

By it for the Reasons ofpresaid Enacted by the King's mast Described Majefy, and the Lords and Commons in Parliament affembled, That so Person or Persons what soever from and after the Twenty ninth of Sepcember, in the Year of our Lord One Thousand Six Hundred and Sixty. spon any Contract, shall from and after the said Twenty ninth of Sepcomber take directly or indirectly for Loan of any Monies, Wares, Merchandines, or other Commodities what forver, above the Value of fix Pounds for the forbearance of one hundred Pounds for a Year; and fo after that Rate for a greater or a leffer Sum, or for a longer or shorter Time: And that all Bonds, Contracts and Assurances what sever made after the Time aforesaid for Payment of any Principal or Money to be lend or covenanted to be performed upon; or for any Usury unbereupon or whereby there shall be reserved or taken above the Rate of fix Pounds in the Hundred as aforesaid, shall be utterly void. And that all and every Person or Persons whatsoever, which shall after the Time aforesaid, upon any Contract to be made after the faid twenty ninth Day of Septem. ber, take, accept, and receive by way or means of any Correct Bargain. Loan, Exchange, Chevisance, Shift or Interest of any Wares, Merchandize, or other Thing or Things what soever; or by any deceitful Way or Means, or by any Covin, Engine, or deceitful Conveyance for the forbearing or giving Day of payment for one abbole Year, of and for their Money or other Thing, above the Sum of fix Pounds for the ferbearing of One bundred Pounds for one Year; and so after that Rate for a greater or lesser Sum, or for a longer or shorter term, shall forfeit and lose for every such Offence the treble Value of the Monies, Wares, Merchandize and other things so lent, bargained, sold, exchanged or shifted, &c.

4. The time at which the Interest of Money is payable, is usually either Yearly, ! Yearly or Quarterly; but when the Interest is payable Quarterly, it is more advantageous to the Lender and less to the Borrower, because the Lender, tho' he receive but 6 Pound per Cent. per Ann. yet if he receive 30 s. every Quarter, he has the Use of that 30 s. the 2d Quarter; of 3 l. the 3d Quarter, and 4 l. 10 s. the 4th Quarter, which the Borrower would have had the Use of, had the Interest been but payable yearly, which difference in the times payable, make a difference in the Amount or Improvement of the Principal, as will farther appear by and by.

5. Interest is either Simple or Compound.

6. Simple Interest is the Interest of the Principal Money first put out to Interest; as if I put ioo it for 2 Years to receive 6 per Cent. per Ann Simple Interest, the Principal will be 100 l. and the Interest 12 l.

7. Compound Interest is so called, because the Interest payable arises from the Principal and Interest due thereupon jointly: As if I put out 100 l. for 2 Years, to receive 61 per Cent. per Ann. acording to the utmost Improvement, the Interest, as it becomes due being not received but forborn: In this Case the 100 l. at the first Year's End will be augmented to 106 l. which 306 L is my Principal for the 2d Year," and at the Determination on thereof will be increased to 112 l. 7s. 2 d. which is 100 l. Principal, 121 for the two Years Simple Interest, and 71 2 d. the Interest of 6 Pounds my first Year's Interest, for the 2d Year.

8. As there is more Advantage to the Lender by receiving Compound Interest than simple, so there is more Advantage when Interest forborn is payable half yearly than yearly: Thus 100 l. at Simple Interest, at 6 l. per Cent. per Ann. will be 200 l. in 16 Years 8 Months: At Compound Interest it will be 200 l in 11 Years 11 Months at the Rate aforesaid, or if forborn 7 Years it will be augmented to 150 l 7s. 3 d. if the Interest was payable yearly, but if half yearly, the 100 l. in 7 Years will be encreated to 151 l. 5 s. 2 d.

Case 1.] When you would find the Simple Interest of any

Sum for 1, 2, 3, 4, &c. Years.

Rule.] Make 1001 the first Number in the Golden Rule, the Rate of Interest, or Interest of 100 l. the second Number, and the Sum given the third Number, and work as before taught in the Rule of direct Proportion; and having found the Interest for one Year, multiply it by the Number of Years, and you have the Answer.

Example.] What is the Simple Interest of 500 l. for three

Years, at 6 l. per Cent.

100:6:500

30.00 one Year's Interest 3 Multiply 2 Years -

90.00 Pounds, Answer.

T 2

Merchants Accompts; or,

140

Example 2.] What is the Interest of 74 l. for seven Years Simple Interest, being computed at 3 l. per Cent. per Annum?

l. l. l.

100: 3::742.22 l. = 1 Year's Interest for 74 l. }

7 Years 

15.54 l. Answer, or 15: 10:  $9\frac{1}{1}$ 

Case 2] When the Interest of any Sum is required for any

Time less than a Year.

Rule.] Find the Interest of the Sum given for a Year, then fay, if 365 Days require the Interest found, what Interest will the Days for which the Interest is to be computed require? Multiply and divide, and the Quotient is the Answer.

Example] What is the Interest of 750 l. from the fifth of June to the first of December following, at 8 l. per Cent. per Annum?

By an Instrument of 2 Circles I invented, or by your Almanack, or otherwise, you will find between the said Times 178 Days. And that the Interest of 750 l. for 1 Year is 60 l. therefore say, if 365 Days require 60 l. what will 178 Days require? Multiply and divide for the Answer: See the Work.

100:8::750

1.60.00 The Interest for 365 Days.

Days. l. Days 365:60::178

365) 10680.000 (29.260 l. or, 29:5:2 Answer.

A. TABLE of Simple Interest at any usual Rate, Viz. At 3, 5, 6 or 8 l. per Cent. per Annum, from 1 l. to 1000 l. for one Day, and may likewise serve for a greater Sum, Number of Days, or Rate of Interest.

```
3 l. per C.
                   & l. per C.
                              6 l. per C.
                                          8 L per C.
      1 Day.
                    1 Day.
                                I Day.
                                            1 Day.
        .0000821
                              .00016428
                  .0001 3698
                                          .00021917
                              .00022876
        .0001642
                  .00027197
                                          .00043835
                              .00049315
                                          .00065753
        .0002463
                  .00041095
        .0003284
                                          .0008767T
    4
                  -00054794
                              .00065753
                              .00082191
        .0004105
                  .00068493
                                          .00109489
    5
    6
        .0004926
                  .00082191
                              .00098629
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        .0005747
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                                          .00153424
                              .00115068
        .0006568
                  .00109568
                              .00131506
                                          .00175342
        .0007389
                              .00147944
                                          .00197260
                  .00123287
    9
       .0008219
                  .00136986
                              .00164383
                                          .00219178
   10
       .0016428
                                         .00438356
                              .00328766
                  .00273972
   20
                              .00493149 , 200657534
        .0024657
   30
                  .00410959
        .0012876
                  .00547942
                              .00657532
                                         .00876712
   40
                  .00685930
                              .00821915
   50
        .2041095
                                         .01094890
   60
       .0049314 .
                  .00821916
                              .00986298
                                         .01315068
                  .00958902
       .0057533
                              18903110.
                                         .01334246
   70
                  .01094888
                              -01315064
   80
       .0065752
                                          .01753424
                  .01232874
                              ·DI $79447
                                          .01972602
   90
       .0073971
                  .01369863
                              .01643835
  100
       .0082191
                                          .0219178
                                         .0438356
       .0164382
                  .02739726
                              ·°3287670
  200
       .0246573
                  .04109599
                              ·04931505
                                         .0657534
  300
                                         .0876712
       10128764
                  .05479462
                              .06575340
  400
· 500
        .0410955
                  .06849315
                              .08219175
                                         .1095890
                  .08219278
  600
       .0493146
                              .09863010
                                         .1315068
                              .11506845
  700
       .0575337
                  .09589141
                                         .1534246
  800
       .0657528
                  .10959004
                              .13150680
                                         .1753424
                  .12028867
  900
       .0739719
                              .14794515
                                         .1972602
                  .12698620
 1000
                              .16438356
        .082191
                                         .219178
```

Advertisement.] They that do not understand Decimals may see my Index to Interest, where is the Interest at any Rate for any time in Vulgar Numbers; and many other useful Matters, not elsewhere extant.

#### The Construction and Use of the foregoing : Table.

The first Column toward the Lest Hand, is the Sum of which you would know the Interest, the second is the Interest of any of those Sums for one Day, at 31. per Cent. per Annum; the third is the Interest of any of those Sums for one Day, at 51 per Cent. per Annum; the fourth the Interest for the same Time, at 61. per Cent. per Annum; and the fifth at 81. per Cent. per Annum, for one Day. The Use of which is thus:

Suppose I would know (as in the Example of the second Case foregoing) the Interest of 750 l. for 178 Days, at 8 l. per Cent.

Look in the Table against 700% and you will find under 8. per Cent. 1534246, which is the Interest of 700% for one Day, at 8% per Cent. and against 50% under 8% per Cent. you'll find .0109589, which is the Interest of 50% for one Day, at 8% per Cent. the Sum of which is .1643835, which multiply by the Number of Days your Sum is forborn (which in this Example is 168 Days) and the Product is the Answer; which in the Example aforesaid is 29.260%. or 29% 5% 2½%.

Example 2.] Suppose I have bought Goods to the Value of 1000 L for which I am to pay at the End of 6 Months by Contract; but a Week afterward I agree to pay the said Money spresently, for which I am to have Rebate at 8 l. per Cent. how

much Money must I pay?

In six Months wanting one Week, are 175 Days: Therefore multiply the Number in the Table, against 1000, under 8 l. per Cest. viz. 219178 by 175 Days, and the Product is 38.356? which I am to be abated of my 1000 l. and am therefore to pay that 961 l. 125. 197 d.

Cafe 3 T When you would find the Compound Inserest of any

Sum.

Rule.] Make 100 L the first Number in the Rule of Proportion, 100 L and its Interest for a Year, the second Number, and the Sum you would know the Interest of, the third Number; then multiply and divide, and the Quotient is the Principal given, and Interest required for one Year; which make the third Number in the Rule of Proportion; continuing the first and second Number as before, &c. So that for every Year your Money is forborn, you have one Operation in the Rule of Proportion.

Example.] What is the Amount of 550 k 10 s. for three Years a Compound Interest, computed at 61. per Cent. per Annum? See the Operation.

l. l. L 100:106::550.5: 106 33030:5505

100:106::583.530 The first Year's Amounta-

350118 58252

100:106::618.5418 The second Year's Amount.

37112508 6185418

655.654308 The Amount for three Years; or 655%.

Case 4.] When it is required to find the present Worth of any Sum of Money, due at the End of any Number of Years yet to come, Compound-Interest discounted at 61. per Cent. per Amum.

Rule ] Say as 106 l. (the Principal and Interest of 100 l for one Year) is in Proportion to the present Worth thereof; So is any Sum due a Year hence to the present Worth thereof. And so for any other Sum or Time.

Example.] What is the present Worth of 655 1. 135 1 d. due at the End of 3 Years to come, Compound Interest discounted

at 6 per Cent. per Annum?

The Decimal of 13 s. 1 d. is .654308 L

The Decimal of 131	. I d. is .654308 %
Therefore fay, l. l.	•
1061.: 100:: 655.654308	
100	<i>l.</i>
106) 65565430800	(618 5418 = the Worth at the
<del></del> :	end of one Year, which is the 3d Number in the next
196	working.
<u>905                                    </u>	
<u>574</u>	
_443	
190	· .
848	•
0	•
2dly. Say, 106: 100:: 618.5418	•
100	6.
106) 61854 1800	(583.53 = the Worth at the
99	end of two Years to come, which is the 3d Number in
885	the next Operation.
<u> 561</u>	• •
318	- 
o Mr. Corr. mod o	
3dly. Say, 106: 100:: 583.53	•
1001	(222 2 - 1)
106) 58353.00	(550.5 = the present Worth,
£2.5	due at the end of 3 Years, or the Answer, which is 550:
535_	10: 00
_530	
D	_

There

There is a much briefer way of finding the Compound Interest, which is done for any Number of Years, at one Operation by Artificial Numbers, call'd Logarithms (as may be seen in my Index to Interest); but since that kind of Arithmetick falls not within the Subject of this Book, which tends chiefly to accomplish the young Merchant; and since Compound Interest is seldom either taken or given by great Traders, I shall therefore omit the former, and say no more of the latter.

## § 6 Concerning Equating Time of Payment,

When several Sums of Money are due at several Times, and the Debtor and Creditor agree to make but one Payment of the whole, it may be done without Loss to either, by this

Rule.] Multiply every Sum of Money by the Time it becometh due, and divide the Sum of the Products by the total Debs, and the Quotient is the true Time, at which the Money ought all to be paid.

Example.] Admit I have 1200 l. owing me, to be paid at 4 feveral Payments, viz. 500 l. at two Months end, 300 l. at 6 Months, 200 l. at 10 Months, and 200 l. at 12 Months; the Question is at what Time the whole may be paid at one Payment, without Wrong on either Side?

l. Mon. Preducts.

500 x 2 = 1000 Dividend. Month.

Divisor 300 x 6 = 1800 7200 (6 = Quotient)

1200 200 x 10 = 2000 or Answer.

By the Work you see the whole Debt ought to be paid at the end of 6 Months, which is the true quated Time.

Note, that (x) signifieth [multiplied by] and (=) equal to.]

### \$ 7. Concerning Gain and Loss in the Practice of Merchandize.

Case 1.] When Goods are bought at any Rate, and you desire to know how to retail the same, so as to gain a certain Sum by the Sale.

Rule.] As the whole Quantity of the Goods bought,

Is in Proportion to the Total of the Sum given for the Goods, and the Sum proposed to be gain'd;

So is any Part of the Commodity,

To a fourth Number, for which if you sell the said Part, you will gain the Sum defired by the Sale of the Whole.

Example.] Admit a Druggist buyeth 158 Ounces of black Ambergreece for 230 l. I demand how he may sell the same (by the Ounce Troy) to gain 50 l. by the Bargain? Say,

158:) 280:: 1: (1.772 Answer, or 1: 15: 5 per Omice - 280.000

1140 349

Case 2.] When you would gain a certain Sum per Cent. by the Sale of any Commodity, to know how to sell the same.

Rule.] Consider what the whole Value of your Goods will gain at your proposed Ratoger Cent. per Annam; then work as in the last Case.

Example.] A Furrier buyeth 2100 lb of New-England Bever for 700 l. 14 s. how may he fell the same per Pound, to gain at the Rate of 20 l. per Cene

The

## The Operation is thus performed!

100 : 20 :: 700.7

100 .	20 /00./	
	20	<i>t.</i> 5.
to Bever		The propoled Gain by 700: 14 Add th Bever
If 2100 2100:)	840.84 fb 840.84 1	(.4004 fb or 8; 0: \frac{1}{2} per fb but 8; will answer your de- fire, wanting only 6. s. 9 d. at the whole.

Cafe 3.] When Goods are bought at a certain Price, and afterwards sustain Damage, and must therefore be sold at an under Rate, to know how to sell the same, to lose a certain Sum. Rule.] First, find the Value of the Goods at a Rate you gave for them, from which deduct what you are willing to lose, and work the Remainder in Proportion, as in the two last Cases.

Example.] An Oylman buyeth of a Merchant 2100 th of Westphelia Ham, for which he gives 9 d. per Pound; but having suflain'd Damage, he is willing to sole 8 h, 15 s. by the Sale; at
what Price must he fell the same to sole will that Sum?

The Value of the Hams

by Practice is 781. 15 s.

The Lofs & 15 deduct.

The Lofs & 15 deduct.

2100:70:1000 (.0331. Answer,

Facit 781. 15 s.

78

2100:70:1000 (.0331. Answer,

70

By the Work I find he must sell for 8 d. per th.

The

The last Question is more briefly resolved thus:

If 2100 to lose 8.75 l. what will 1 to lose?

2100) 8.750 (.004 l. or 1 d. per Pound loss.

So he must sell it for 8 d. per the as was raught before.

Case 4.] When Goods are bought at one Price, and sold for a greater, to be paid at Time, to know what you gain by 100 l. in a Year at that Rate.

Rule. Say by the Double Rule of Direct Proportion foregoing. As the Price that your Goods (or any part) cost you, is to the Gain by such Goods, or part in the Time you trust the Buyer; So is 100 l in 12 Months to the Sum gained thereby for Answer.

Example.] A Merchant bought Logwood at 20 s. 6d. per Hundred, ready Money, and fold the same to a Dyer for 25 s. per Hundred, to be paid at the end of 6 Months; the Question is what he gained at that Rate by 100 l. in a Year. See the Work as by the Rule above.

Hundred cost the Merchant 20.5 He fold the same for 25.

His Gain by 1 Hundred = 4.5 Then say, i. Mo. s. l. Mo. If 20.5: 6: 45: 100: 12

6 45

123.0 450.0

123) 5400.600 (43.902

480 OF 43: 18: 05 per Cent. per Annum

1110

300-

## § 8. Concerning Fellowsbip, or Trading in Company.

Case 1.] When two or more Merchants make a common Stock, and by Trade gain or lese a certain Sum; to know what each gaineth or leseth in Proportion to his Share of the commons Stock.

Rule.] Divide the whole Loss or Gain by the whole Stock, and multiply the Quotient by each Man's Share of the Stock, and the several Products are the respective Gain or Loss of each particular Merchant.

Example.] Three Merchantsmake a common Stock of 16000l. of which

7000 l. was put in by the first Merchants of 5000 l. by the second; and 4000 l. by the third.

and by one Voyage they gain 24000 L what must each have in proportion to his Share?

4000 l.

I made the man and and an analysis (000) and an analysis one being fine in a compliant (though the part Charge).

---

Multiplied by 5000 = the Profit of the 1st. 7500 = of the 2d. 6000 = of the 3d.

Sum = 24000 for proof

Case 2.] When several Merchants make a common Stock for a certain Time, and at the end thereof make a Dividend, to find each Man's Share of the Gain or Loss according to his Stock and Time.

Rule:

Rule.] Multiply each Man's Share in the common Stock, by the Time it continued therein, and proceed with the Products, as with the Shares in the last Case.

Enample.] Two Merchants make a common Stock for twelve Months; the first part in 2500 k for 8 Months, the second put in 3000 k for 12 Months, at the end whereof they make a Dividend of 1680 Pounds Gain; how much of that Gain shall each have in Proportion to his Stock and Time of Continuance?

1. Mo. Products.

2500 # 8 = 20000 +.

3000 # 12 == 36000 +.

Gain divide

Sum == 56000) 1.680 (.03

oo remains

103 Multiply'd by \$20000 l. 3 produceth \$ 600.00 the 1ft. gain'd. 1080.00 the 2d. gain'd.

The Total Gain = 1680 for Proof.

I might have inferred more of these and such like Examples, but one being sufficient to explain a General Rule, I shall proceed to the next Chapter.

#### CHAP. X.

## Treateth of Book-keeping by Debtor and Creditor-

Aving in the foregoing Chapters given the young Merchant the Grounds and Reasons of Arithmetick, and Rules for casting up any thing that may occur in his daily Business; I come in this Chapter to shew him how to place the same to Accompt; and that I may do it with all the Plainness I can, and in a few Words, I shall proceed to shew,

#### § 1. The Explanation of Book-keeping, with the Books requisite to be kept, and their Use.

The Method of keeping Books by way of Debtor and Creditor, or (as some call it) after the Italian manner, is so regular and precise, that at any Time the Merchant can be resolved what he gaineth or loseth by every particular Person he dealeth with, or Merchandize he dealeth in, and consequently what he is worth to a Farthing. And for your Information, how these Books are kept, take this

#### General Rule.

Any thing whatfoever is received either by the Merchant, or any way for his Accompt by his Servants, whether the same be-Money or Wares: I say the thing so received, for, or upon his Accompt, is in the Journal and Ledger (which shall be spoken to by and by) made Debtor to the Person received from, or

thing for which it is receiv'd.

Also every Thing whatsoever is deliver'd from the Merchant upon any Accompt, whether Money or Wares, the thing so delivered by the Merchant, or any way for his Use or Accompt, is in the Journal and Ledger made Creditor, by the Person to whom, or thing for which the same is deliver'd. My meaning in this Rule shall be fully made appear in all the usual Cases of a Merchant's Dealing, after I have shewed the Books necessary for keeping Accompts after this Method, which are as followeth.

The

## 152 Concerning the Wafte-book, Journal and Ledger.

1. The Matte-Book is that wherein every thing is entered, whether bought, fold, or bartered; as also all Goods shipp'd, Advice receiv'd of their Sale; Money lent or receiv'd at Interest, &c. (but not Money receiv'd or paid for Goods that were sold or bought at Time, or for petty Expences, &c. which I enter only in the Cash-book, and post it thence into the Ledger, which is sufficient) together with the Time when, by the Day of the Month inserted in the middle of the Page, with the Year of our Lord; and is of no farther Use, but only to remind the Book-keeper, that such and such Business is to be posted into the Journal, the Cash being never summed up in this Book, it being several Mens Accompts of Receipts and Payments placed together promiseuously.

2. The Southal is a Book into which every thing is posted out of the Waste-Book, which is here to be made Debtor, and ought to be expressed in a better Stile or Phrase of speaking and fairly written more Merchant-like, it being, as it were, a Preparatory to the Ledger, whereby is shewed what Accompts are to be entered Debtor therein, and to which Book Recourse can only properly be had for the Particular of any Accompt ill wrote or worded in the Waste-book, or enter'd but briefly in the Ledger, as all Accompts usually are. In this Book the Day of the Month is also placed in the middle of the Page, which is never sum'd up, unless it contains only one Man's Accompts, for

the Reason aforesaid.

3. The Lenger is the chief Book of Accompts, and that in which all Accompts meet, and are placed Debtor on the Lefthand Page, and Creditor on the Right; so that the Folio's on the Right and Left hand in this Book are number'd alike; because one and the same Accompt is placed on both sides. In this Book the Day of the Month is placed in a narrow Column toward the Left hand of the Page, and the Name of the Month to the Left hand the Day. At the Head of each Folio in this Book, is written the Name of the City or Place where the Books are kept, with the Year; all which you will see in the Example of these three Books, after the several Cases. The Denomination of most of your Accompts to be: entered in this Book, are thus ranked and explain'd.

First, place your Account of Stock at the beginning of your Ledger, viz. Make Stock Debtor to what you owe when you begin to keep your Books, let the Debt be upon what Accompt foever, in these Words, on the Lest-hand Folio, as it lieth be-

core you.

#### Stock Debtor.

To fundry Accompts, as per Inventory, fo much as your Debts are, and first of all, having taken an Inventory of all you are worth in Cash, Wares, or Debts, (as you see in the Inventory following) write on the Right-hand Folio the Sum of what you are worth, as appeareth by the Particulars in the Inventory, making Stock Creditor in these Words,

#### Per contra Creditor,

By fundry Accompts, as per Inventory, mentioning the Value

of all the Cash, Wares, and Debts you have.

The next thing (on the same Folio) is the Accompt of Cash, where note, that before you enter any thing Debtor or Creditor in your Ledger, you are to look whether you have any thing of the same Denomination in your Inventory, which if you have, you must the first thing in the Accompt, make it Debtor to Stock for so much as is in the Inventory of that Accompt, as suppose you have in ready Cash at the time of taking your Inventory 2000 l. you must make, first,

## Cash, Debtor,

Next to the Accompt of Cash in your Ledger, you may put what Accompt occurs in Practice: as the Accompt of any Per-

fon, of Wares, Voyages, &c. as,

When you Ship off Goods to your Factor, to be fold for your Accompt, you are in this Book to keep an Accompt for the Voyage in a place by it felf, as you do the rest, making Voyage to such a place, (mentioning the Port or Place your Factor resideth at) configured to such a Person (mentioning your Factor's Name) Debtor to the Goods Shipped. To Custom, Insurance, and all other Charges on the same, and the contrary Accompts Creditor by Voyage.

When you have Advice that the Goods Ship'd are Sold, them in some one place make Factor at such a Place, my Accompts current Debtor to Voyage; and the Voyage Creditor By the Accompt current, &--

In this Book is also kept the Accompt of Profit and Loss, by

it self thus:

## Profit and Loss Debtor,

To Cash for what Money you pay and have nothing for it; as to Rebate of Money paid you before due; To Abatement by Composition, when a Person is insolvent; To Houshold Expences, Servants Wages, &c. And,

## Per Contra Creditor,

By Cash for all you receive, and deliver nothing for the same; as by Money received with an Apprentice; by Rebate for paying a Sum before due; for Legacy lest you by a Friend, and by the Sum you gain by every particular Commodity you deal

in; By Ships in Company; By Voyages, &c.

4. The Cash took is that wherein you enter all the Money you receive upon any Accompt, on the Lest hand Folio, making Cash Debtor to the thing you receive it for, if it is received for Goods then Sold, but if not, To the Person you receive it from, as in the Example of a Cash Book, &c. and on the Righthand Folio enter all the Cash you pay, Creditor By the Person you pay it to (mentioning whether it is in full or in Part) or thing you pay it for, if paid for Goods then bought, and place the Day when you receive or pay it as in the Ledger, and once in a Month, or oftner, sum up your Accompt of Cash received and paid, carrying the Sum to the Accompt of Cash in the Ledger, which Accompt, without this Book would swell too big, provided you should enter the Particulars there.

5. It is necessary you should keep a Book to enter all the Cash which you expend in House-keeping, and once in a Month transfer the same into the Creditor-side of the Cash-

Book, and then into the Debtor-side of the Ledger, thus:

# Housbold Expences, Debtor,

To Cash, so much as you bring from your Book of Houshold Expences; and Cash is made Creditor, By Houshold Expences in your Cash Book, For the Monthly Sum spent in House-keeping, and brought from the Book of Houshold Expences. In this Book 'tis likewise proper to enter the Charge of Apparel, Rent of your Dwelling-House, Pocket-Expences, Servants-Wages, &c. as in the following Book of Houshold Expences.

6. A Book of Charges on Derchandize, wherein you must enter the Charge of Custom, Freight, Ware-house, Room, Postage of Letters, Porterage, Cartage, Wharfage, Books of Accompts, &c. and once in a Month make a Sum, and transfer it into the Creditor-side of your Cash-Book, making a Referr to the Folio of the Book of Charges of Merchandize; and also into the Debtor-side of the Account of Charges of Merchandize in

your Ledger.

7. A Book of fractories of Innoices, Which is an Account of Goods shipt or sent by you to your Factor, or receiv'd from him, or. In this Book enter the Goods sent or Shipt to be Sold for your Account, with the Value and Time when sent, on the Lest-hand Folio; and as you receive Advice of their Sale, enter the same on the Right-hand Folio; so may you readily see how the Account stands in that Particular.

8. Besides these Books, the Merchant ought to have a Book, wherein to enter a Copy of all Letters he sendeth or receiveth

upon Account of Trade: Also,

9. A Pocket-Book, to take the Minutes of what Bufiness he

does abroad, for the Ease of Memory, and to avoid Error.

19. A Bill-Book, or small Book, wherein to enter all Bills of Exchange the Merchant accepteth, with the Sum and Time when payable, and to whom; or if foreign Bills, a Copy of the Bill; and as you pay the same, write [Paid] in the Margin against the Bill paid.

11. Lastly, A Book of Receipts, wherein to take all Receipts for Money you pay; expressing first the Day of the Month, then the Sum received, and for what, or whether in full or in part, and for whate Use, which must be Sign'd by the Person receiving.

156 Accounts proper in Domestick Trade.

Thus have I given you an Account of all the Books necessary for a Merchant to keep, especially if he is a great Dealer; also the Nature of the Account to be inserted in each Book, and the Use thereof. I shall next proceed to give such particular Directions as will enable the Book-keeper to find proper Debtors and Creditors, for most, if not all the Cases he will meet with in the Practice of Merchandize.

§. 2. Sheweth how to enter in your Ledger proper Accounts in Domestick Trade.

Definition. Roper Accounts in Domestick Business is, when the same is wholly managed by the Merchant, (or his Domestick Servants) in Trade for himself, &c. not by Commission; as in the Cases following.

Case 1. When Money is receiv'd for a Debt.

Rule. [Cash Debtor] to him for whose Account it was paid. The Paying-man's Account, Creditor, By Cash.

Case 2. When present Money is receiv'd for Wares.

Rule. [Cash Debtor] To the Wares Sold, the Sum receiv'd. Goods sold Creditor By Cash for the same Sum.

Case 3. When Money is pain for Wares, presently, as soon as bought.
[Wares bought, Debtor] To Cash for what paid.

Cash Creditor, By Wares bought in the same Sum. When I pay Money that was due formerly.

Rule. When I pay Money that was due formerly.

[The Receiver's Account] Debtor to Cash for what paid.

Cash Account, Creditor, By the Person receiving.

Case 5. When Money is taken at Interest.

Rule. [Cash Debtor] to the Lending-man for the Principal I receive.

[Profit and Loss] Debtor to the Lending man for the Interest coming due to him.

The Lending-man Creditor, By fundry Accounts, referring to the Folio's of Cash, and Profit and Loss.

Case 6. When Money is Let at Interest.

Rule. [The Borrowing man] Debtor to fundry Accounts, referring to the Folio's of Cash, and Profit and Loss.

Cash Creditor By the Borrowing-man for the Principal lent.

Profit and Loss Creditor by the Borrowing-man for the

Interest.

Case

Accounts proper in Domestick Trade.

Cafe 7. When Interest-money is paid by me, and pal continued.

Rule. [Profit and Loss] Debtor to Cash for the Sur Cash Creditor By Profit and Loss for the sam

Case 8. When Money is received by me for Interest.

Principal continued.

Rule. [Cash Debtor] To Profit and Loss for the Interes u.
Profit and Loss, Creditor, y Bthe Paying-man for the same.

Case 9. When I receive Money by Assignation.

Rule. [Cash Debtor] To the Assignor for the Sum receiv'd. The Assignor Creditor By Cash for the same Sum.

Case 10. When I satisfie a Debt by Assignment of another due to me.

Rule. [The Receiver Debtor] To him on whom the Assignment is charged.

He on whom the Assignment is charged Creditor By the Accepter.

Case 11. When I pay Money to any, by my Creditor's Assignation.
Rule. [The Assignor] Debtor to Cash for the Sum paid (mentioning to whom).

Cash Creditor By the Assignor for the same Sum, mentioning to whom paid, and by whose Assignation.

Case 12. When I received part of a Debt, and (by Composition) give a Discharge in full.

Rule. [Cash Debtor] To the Payer for the Sum receiv'd.

Profit and Loss Debtor to him for the Sum I abate by
Composition.

The Paying-man Creditor By sundry Accounts, referring to the Folio's of Cash and Profit and Loss.

Case 12. When Wares are bought upon Time.

Rule. The [Wares bought Debtor] To the Seller for the Value of them.

The Seller Creditor By the Wares bought for the like Sum.

Case 14. When Wares are sold upon Time.

Rule. The [Buyer Debtor] To the Wares fold for their Value. The Wares Creditor By the Buying-man for the fame Sum-

Case 15. When Wares bought are to be paid for at feveral Payments.

Rule. The [Wares Debtor] To the Seller for their Value, (mentioning the feveral Days of Payment in the Journal.)

The Seller Creditor By the Wares for the like Sum-

· Case 16.

158 Accounts proper in Demeffick Trade.

Case 16. When Wares are bought part for ready Money, and

part at time.

Rule. The [Wares bought Debtor] To fundry Accounts, (referring to the Account of Cash, and the Seller's Account by their Folio's.

The Selling-man Creditor By Wares bought so much as is left unpaid; and Cash Creditor By Wares for so much paid Ready-money.

Cafe 17. When fundry Parcels of Wares are bought for Ready-

Money.

The several and [respective Wares] must be made Debtor to Cash for the Value it stands me in; and Cash Creditor By sundry Accounts for the total Value, referring to the several Folio's where the several Wares stand Book'd in the Ledger.

Case 18. When several Parcels of Wares are sold for Ready-

Ruk. Money.

[Cash Debtor] To fundry Accounts (referring to the Folio's Where the several Wares Sold are entred in the Ledger) for their whole Value.

The respective Wares Creditor By Cash.

Case 19. When Wares are sold part for Ready-money and part at Time.

Rate. The [Buyer Debtor] To Wares fold, for the Sum un-

[Cash Debtor] To the Wares sold for the Sum receiv'd

in part.

Wares Creditor By fundry Accounts (referring to the Accounts of the Buyer and Cash) for the whole Sum for which the Wares are sold.

Cafe 20. When Wares are bought at Time, and Book'd, and

afterward Ready-money is paid upon Rebate.

Rule. The [Seller Debtor] To Cash for the Sum paid kim (deducting the Rebate.)

Cash Creditor by the Seller for the same Sum.

The [Seller Debtor] To Profit and Loss for the Rebate. Profit and Loss Creditor by the Seller for the same Sum.

Cafe 21. When Wares are fold at Time, and Book'd, but Money receiv'd presently after, for the same, allowing Rebate.

Rule. [Cash Debtor] To the Buyer for the Sum receiv'd up-

The

The Buyer Creditor By Cash for the same Sum.
[Profit and Loss] Debtor to the Buyer for the Sum rebated.

The Buyer Creditor By Profit and Loss for the same Sum.

Cofe 22. When Wares are bought, and part paid Ready-money,

part at Time, and the rest by Assignation.

Rule. [Wares Debtor] To fundry Accounts, the whole Value referring to the Folio's of the Seller's Account, Cash and his whose Bill is assign'd.

The Seller Cr. by the Wares for so much as is yet unpaid. Cash Cr. by the Wares for so much as is paid in Cash. [Him whose Bill you have assign'd] Cr. by the Wares, so much as the Sum assigned is.

case 23. When Wares are sold for part Ready-money, part by

Assignation, and the rest at Time.

Rule. [Cash Dr.] To Wares, for the Sum received in part of the Buyer.

[The Person on whom the Assignment is made] Dr.

To Wares, so much as is assign'd.

[The Buyer Dr.] To Wares for the Sum he left unpaid. Wares Cr. Byfundry Accounts referring to the Folio's of Cash, the Person to pay the Money assign d, and the Buyer.

lue is more than your Debt, which Surplus is returned.

in Cash immediately.

Make [Wares bought] Dr. To fundry Accounts, viz.
To the Seller for 10 much as his Debt was, referring to
the Folio of the Seller's Account, and to Cash for the
Surplus. The Seller's Account Cr. By Wares, for the
Sum paid him by Agreement.
Cash Cr. By Wares for the Surplus paid.

Case 25. When in Payment of a Debt you sell Goods to your Cr. whose Value exceeding his Debt, he returneth you

the Overplus.

Rule. The [Buyer Dr.] To Wares for so much as his Debt was [Cash Dr.] To Wares for the Overplus returned.
Wares Cr. By sundry Accounts referring to the Folio's of Cash, and the Buyers Account.

Case 26. When Wares are bought in Barter for other Wares.

Rule. The [Wares bought Dr.] To the Wares fold for the Value of the Wares fold.

Wares.

Accounts proper in Foreign Trade.

Wares fold Cr. By Wares bought for the Value of those bought.

Case 27. When Wares are bought, part for Wares, and part for

Ready-money.

Rule. [Wares bought] To fundry Accounts, referring to the Folio's of Wares fold, and Cash.

Wares fold Cr. By the Wares bought for the Value of those fold.

Case 28. Cash Cr. By Wares bought for the Sum paid in Money. When Wares are sold for part Wares and part Ready-

, money.

Make [Wares bought] Dr. To Wares fold for what they cost.

Cash Dr. to Wares sold for the Sum receiv'd.

Wares sold Cr. By sundry Accounts, referring to the Folio's of the Wares bought, and Cash.

Case 29. When you pay Money for part of a Ship.

Rule. [Ship] (naming her) Dr. To Cash for the Sum paid, naming the Master, and what part you have bought. CashCr. By the Ship, the Sum paid, mentioning to whom.

#### § 3. Accounts proper in Foreign Trade.

Definit. Roper Accounts in Foreign Trade, is, when the Merchant sendeth Goods beyond the Sea, to some Correspondent, to be sold for his Account.

Cafe I. When you Ship off Wares.

Make [Voyage to such a place] (mentioning the place whither you send them) consign'd to your Factor or Correspondent (mentioning his Name) Dr. To the Wares shipp'd for their Value, naming the Ship and Master's Name.

Wares Cr. By Voyage To, &c.

Case 2. When you would enter Charges on Goods shipp'd off.

Make, [Voyage to the place whither your Ship is bound Dr.] To Charges of Merchandize for the Sum paid on (naming the Commodity.)

Charges of Merchandize Cr. By the Voyage for the

fame Sum.

Case 3- When Money is receiv'd upon Insurance.

Make [Cash Dr.] To Insurance-Account, Expressing what Sum you Insure, to whom, and on what Account. Insurance Account Cr. By Cash, &c.

Case 4. If the Goods you Insure are lost.

Rule. Make [Infurance-Account] Dr. to the Person to whom you Insured the Sum lost.

The Perfon to whom you Insure Cr. By Insurance-Acct.

Case 5. When you pay Money for Insurance.

Rule. Make [Infurance Account Dr.] To Cash for the Sumpaid, (mentioning the Sum Insured to you, by whom, And on what Account) and Cash Cr. By Insurance Account, &c.

Case 6. If the Goods that are Insured to you are lost.

Rule. Make [the Person that Insured Dr.] To Insurance-Account the Sum Insured, and Insurance-Account Cr. By the Person that Insured to you.

Case 7. When you even the Accompt of Insurance.

Rule. If the Sum on the Cr. fide exceed that of the Dr. Make [Insurance-Accompt Dr.] To Profit and Loss for that Excess. But if the Dr. fide exceed the Cr. Make [Profit and Loss Dr.] to Insurance-Accompt for that Excess, and in both Cases per Contra Creditors.

Cefe 8. When you receive Advice from your Factor, that Goods formerly configured to him are fold———

Rule. [Factor at-- (mentioning the place where he liveth at) my Account current Dr.] To Voyage to fuch a place, for the known Sale in Sterling Money, being the Neat proceed of Wares, as by his Account, fold for fo much foreign Coin (mentioning the Exchange) Then make Voyage to such place, consign'd to such Person (mentioning your Factor's Name). Cr. By my Factor at such Place my Accompt current for so much Sterling Money as you know by his Account, the foreign Coin of the Neat proceed amounts to.

Note, That the Neat proceed is when the Charges of Custom, bringing the Goods from on Board into the Ware-house, Provision, &c. is deducted from the Value the Goods are sold for by a Factor.

Case 9. When Wares are bought upon time, and ship'd off before Entry in your Books.

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262 Accepts proper in Famige Trade.

Make [Voyage to such a place consign'd to such a Partison, Dr.] To the Selling-man, naming the Quantity, Price, and other Conditions of buying and saipping off. The Sellers Cr. By Voyage, &c.

Case 10. When Abarement is made by my Factor for Defect in

Goods he formerly fold.

Rule. Make [Profit and Loss Dr.] To Factor ar-my Accompt current (mentioning for what, and the Sum.)
Then make Factor at such a place my Accompt current Cr. By Profit and Loss for such Sum, &c.

Case 11. When Wares are bought for ready Money, and im-

mediately shipp'd off before Entry.

Rule. Make [Voyage To —— Dr.] To Cash for the Value of the Goods shipp'd, mentioning the Names of the Wares, Quantity and Charges, till on Board, &c.

Then Cash Cr. By Voyage, &c.

Case 12. When you receive the unhappy News of your Goods

being cast away.

Bule. Make [Profit and Loss Dr.] To Voyage to such a place, confign'd to such a Person, Ce.

Then make Voyage Cr. By Profit and Loss for the same Sum. Oc.

Cafe 13. When I order my Factor beyond the Sea, to ship off

Goods to another Factor in another Place.

Rule. [Voyage to fuch a place confign'd to my receiving Factor] Dr. To my fending Factor, (montioning their Names) my Account current so much for such a Commodity.

Then make my fending Factor (mentioning his Name) at fuch a place my Account current Cr. By Voyage to fuch a Place configured to my recaiving Factor (na-

ming his Name and Place), for the same Sum.

Case 14. When I receive the Content of a Bill here, and thereupon draw the same on my Factor, to pay to the Or-

der of him that paid me.

Make [Cash Dr.] to my Factor at such a place my Accompt currant for so much Sterling received of such a Person for my Bill drawn on Ditto Factor payable by him to such a Person, at such a Time, so much Foreign Coin, which at so much Exchange, makes Sterling so much. Then make Factor at such a place, my Accompt current Cr. By Cash, &c. Case

Accompts proper in Foreign Trade.

Cafe 17. When I receive Wares in Return from my Factor or Correspondent.

Make [Wares received Dr.] To Factor at fuch a place. Rule (who fent the Wares) my Accompt Currant fo much as the Wares, Cost and Charges, mentioning what they are, &. Then Factor at such a place, my Accompt Current, Cr. By Wares received for their Value and Charges, &c.

Case 16. When I deliver a Bill here drawn upon my Factor beyond Sea, and receive not the Content till some time:

Rule. The [Person to whom I deliver my Bill] Dr. To Factor at fuch a place, my Accompt Current in fo much: Sterling for my Bill of so much Foreign Coin drawn. upon such Factor, payable at such a Time, to such a Person, or Order, the Exchange at so much Sterling, for fo much Foreign Coin, makes -----Factor at fuch a place my Accompt Currant Cr. By the Person to whom I deliver my Bill.

Case 17. When I receive Money presently, which is the Content of a Bill drawn on some person here by my Factor.

[Cash Dr.] To Factor at — (my Accompt Current) for To much received of fuch a Person by Bill of Exchange payable at Sight, for the Value paid there, (i.e. beyond. Sea by my Factor) to such a Person.

Then Factor at-my Accompt Current Cr. by Cash, &c.

Case 18. When I receive Advice that my Factor at one place: has drawn a Bill on my Factor at another place.

Make [the drawing Factor my Accompt Currant] Dr. Rule. To the paying Factor, my Accompt Currant for so much Foreign Coin drawn by—payable at fuch a time to. fuch a person, so much Foreign Coin, which at such a Rate makes Sterling-Then make the accepting Factor my Accompt Currant Cr. by the drawing Factor, my Accompt Currant, mentioning both their Names, Sum, &c.

4. Rustorage Accompts in Domestick Trade.

THESE Accompts are when a Trade is managed. by the Factor or his Servants for the Employer, whom the Factor ferveth in Commission, Y 2.

Cafe

164 Factorage Accompts in Domeftigk Trade.

Rule. When a Factor receives Wares from his Employ er.

Rule. Make [the Accompt of Goods for your Employer] Dr.

to Cash for so much paid Custom, Freight, &c. at the

Receipt.
Then make Cash Cr. By Accompt of Goods, &c. so

much as paid.

Case 2. When Wares received in Commission by a Factor, are

fold for ready Money.

Rule. [Cash Dr.] To Accompt of Goods for the Employer, the Sum received.

Then make Accompt of Goods for the Employer Cr.
By Cash the same Sum.

Case 3. When Commission Wares are sold by the Factor in

Barter.

Rule. [Goods bought in Barter] Dr. To the Employer his Accompt of Wares.

[Accompt of Wares, &c.] Cr. By Wares received the fame Sum.

Case 4. When Wares in Commission are sold part for ready

Money, and part at Time.

The [Buyer Dr.] To Accompt of Goods for Accompt of the Employer, the Sum left unpaid, Cash Dr. To Accompt of Goods, &c. for the Sum received.

[Accompt of Goods for the Employer] Cr. By sundry Accompts for the total Value of the Goods sold, referring to the Folio's of the Accompts of the Buyer and Cash.

Case 5. When Wares are sent to an Employer in return with

Charges in Shipping off.

Make [Accompt of Wares for Accompt of the Owner (or your Employer naming his Name) his Accompt currant] Dr. To the Goods shipp'd, naming the Value and Goods, with the Ships and Masters Names, &c.

Also the same Accompt Dr. To Cash paid for Custom and other Charges.

Then make Wares shipp'd Cr. By the Employer, his

Accompt currant for the Value.

And Cash Cr. by the same Accompt current, for the

Charges of shipping off.

That if these Goods shipp'd were bought by Order, and on the Accompt of the Employer with ready Money, and not entred before in your Ledger.

Make

. Eaclorage Accompasion Foreign Traile.

Make [your Employer (naming his Name) his Accompt current Dr. To Cash for the Value of the Goods and Charges of shipping off.

And Cash Creditor per contra;

Case 6. When a Bill of Exchange is drawn on a Factor by his

Employer, payable at time.

Rule. Make [Employer at fuch a place (as before) his Accompt currant] Dr. To whom the Bill is payable for the Content thereof.

Then make [him Cr. To whom the Bill is payable] (naming his Name) by your Employer his Accompt

currant for the same Sum.

Note. That if this Bill had been paid to Order of the Employer by the Factor presently, the Employer's Accompt current must be made Dr. to Cash for the Sum paid (naming to whom) And Cash Cr. by the contrary-for ditto Sum.

And the Entry is the same with this last, when the Factor remits ready Money to his Employer.

#### §. 5. Fallorage Accompts in Foreign Trade,

on the Business of those whom he serves in Commission without Assistance of Foreign Correspondence, for whose returns he is accomptable to his Employer.

Case 1. When Goods sent to Sea are insured by me.

Make [Voyage to such a place, for such a one's Accompt (the Employer consigned to such a Factor Dr.]

To Cash (if you paid the Insurance-money presently) and Cash Cr. By Voyage, &c.

But if the Insurance-money was not to be paid present-

But if the Insurance-money was not to be paid presently: Then [Voyage To, &c.] Dr. To the Insurer.

And the Insurer Cr. by Voyage.

Case 2. When Goods are shipp'd by a Factor by order of his

Employer to his Factor in another Country.

Rule. Make [Voyage to fuch a place for Accompt of your Employer configned to your Factor (naming his Name)
Dr. To [my Employer his Accompt of Wares] for Charges at the Receipt of the Goods.
And to Cash for Charges of Shipping.

Then

### 166 Factorage Accompts in Foreign Trade.

Then make per Gonira Cr. the Accompt of Wares, and Cash.

Case 3. When you receive Advice that the Wares are sold which were formerly sent to your Factor.

Make [Factor at fuch a place for Accompt of my Employer] Dr. To Voyage to fuch a place for ditto Accompt for the Neat proceed as by Advice.

Then make [Voyage to the same place for Accompt of my Employer] Cr. by Factor at — for Accompt of my Employer.

Case 4. When you are to enter your Provision for Wares sold

on a Foreign Accompt.

Rule. Make [Voyage to such a place (where the Factor resideth) for Accompt of my Employer] Dr. to Profit and Loss, for so much as your Provision (or Money for your Employment amounteth to as by your Agreement.

Then make [Profit and Loss Cr. By Voyage (to for Accompt of my Employer for the same Sum.

Case 5. When you receive Advice that your Factor hath made Abatement for Desects in Goods that he formerly fold.

Rule. Make [Voyage to fach a place for Accompt of my Employer] Dr. To Factor at such a place for Account of your Employer, so much as abated.

Then make [Factor (at such a place) for Accompt of my Employer] (at such a place Cr.) By Voyage to the place your Factor liveth at) for Accompt of my Em-

ployer for the fame Sum.

Note, That when you close the Accompt of Wares fold by your Factor with his Returns, &c. for Accompt of your Employer, you must make Voyage to your Factor, for Accompt of your Employer, Dr. [To your Employer's Accompt currant] for the Ballance thereof. and contrary Cr. By Voyage to such a place for Accompt of your Employer, for the same Sum.

#### §. 6. Company Accompts.

Definit. Company Accompts, is when a Stock is employed in common between several Merchants in the Way of Trade, and each Partner is to have a Share of the Gain, or bear a Share of the Loss, in proportion to his Share in the Stock; as is taught in the Rules of Fellowship in the last Chapter.

Company Account

Company Account.

Rule. Make [Wares in the Company between the Partner and me (naming our feveral Shares of the Stock) Debtor] To Cash for the Value of the Goods, &c.

Cash Cr. By Wares in Company between Partner and

Me for the fame Sum.

Then make [my Partner (naming his Name) his Account currant] Dr. to ditto Partner's Account in Company for his Share of the Stock.

And his Account in Company Cr. By his Account, and

currant for the fame Sum.

Note, That if the Goods were bought upon Trust, the Entry is the same; if instead of [Cash] you make the Goods Dr. To the [Seller] and him Cr. by the same.

Case 2. When I receive my Partner's Share of Cash for the

Goods bought in Company.

Rule. [Cash Dr.] To my Partner his Account current for the Sum he paid me.

[His Account current] Cr. By Cash for the same Sum.

When you (having the management of the Account in Company) give an Affigument to a Cr. upon your Partner for his Share of Goods bought in Company.

Rule. Make [the Receiver Dr.] To [your Partner his Account current] for the Sum in the Assignment.

And Partner's Account currant Cr. by the Demander for the same Sum———

When I receive Ready Money for Goods fold in Com-

Gale 4. pany.

Make [Cash Dr.] To Wares in Company (always naming the Wares) between my Parner and Me (naming his Name and each of our Shares) for such Goods sold such a Person, so much their Value.

And [Wares in Company between fuch a one and

me] Cr. By Cash for the same Sum.

Then make Partner's Account in Company] Dr. To his Account currant for his Share of the Cash received.

And [Partner's Account currant Cr.] By his Account by me in Company for the same Sum.

Note, if these Wares had been sold at time, the Entry had been much the same, if instead of making Cash Dr.

Accompts in Company.

To Wares in Company, you make the Buyer Dr. To the same Wares: And [Wares in Company Cr. by the Buyers, &c.]

Case 5. When Goods are sold in Company, part for Rea-

dy-money, and part at time.

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Pule. Make Cash Dr. to Wares in Company, between my Partner and me, for the Money received in part.

And the Buyer Dr. To the same Account for the Money left unpaid: Then make Wares in Company between my Partner and me, Cr. by sundry Accounts (referring to the Folio's of Cash) and the Buyer's Account for the whole Value of the Goods sold.

2dly. [Make my Partner's Account in Company] Dr. To his Account current, for his Share of the whole Va-

lue of the Wares fold.

And my Partner's Account currant Cr. By his Account by me in Company for the fame Sum.

Case 6. When I bring into Company Wares of my own, that

are enter'd in my Ledger.

Make [Wares in Company (naming their Names) between my Partner and me] Dr. to Wares (naming their Name again) in the Sum you bring them into Company for, naming for what Quantity, Price, &c.

Then make [Wares(as before enter'd in your Ledger) Cr. By the same Wares in Company between my Partner and me, for the quantity brought into Company at such a price. 2dy, Make Partner his Account currant Dr.] To my Partner's Account in Company for so much Goods brought into Company by me, of which his Share of the Price is so much.

Then make [Partner his Account in Company Cr.]

By his Account current for his faid Share———

Case 7. When Wares bought for Comp. Account and Booked, are shipp'd off To be fold for the same Comp. Account.

are lhipped off To be fold for the lame Comp. Account. Make [Voyage (to the place whither the Ship is bound, naming the Factor the Wares are confign'd to) in Company between my Partner and me] Dr. To Goods ship'd for their Value To Cash for Charge of Shipping, so much as paid for that. Then make [Wares in Company between my Partner and me] Cr. By [Voyage in Company between us] for their value. And [Cash Cr.] By Charges of Shipping.

his Accompt in Company for his Share of the Charges of Shipping off. And

Ditto [Partner his Accompt in Company] Cr. By his

Accompt current for the fame Sum-

When Wares are bought on Company Accompt to be paid for at Time, And are Ship'd off (and Charges paid) before Entry.

Make [Voyage to fuch a place in Company between my Partner and Me, configued to our Factor] Dr. To the Selling-man for the Value of the Wares,, and to Cash for the Charges of Shipping, &c.

Then make [the Seller Cr.] By Noyage to such a place, in Company between my Partner and Me configned to our Factor, for the Value of the Goods Shipp'd, And [Cash Cr.] By Voyage in Company between my Partner and Me, confign'd to our Factor at such a place,

ner and Me, confign'd to our Factor at such a place, for the Charge till on Board.

adly, Make [Partner his Accompt current] Dr. To Ditto Partner's Accompt in Company, for his Share of the Value of the Wares, and Charges till on Board.

And [his Accompt in Company] Cr. By his Accompt current for the same Share of the Value and

Charges of Shipping.

Note. That if the Wares bought in this Case had been paid for in Ready-money, the Entry would be the same, with this Difference only; That whereas first, Voyage in Company, &c. is made Dr. to the Seller, and he Cr. by Voyage, &c. you must make [Voyage in Company, &c.] Dr. To Cash for the Value and Charges, And Cash Cr. By Voyage, &c for the same Sum.

Gase 9. When I receive Advice that Wares for Company Ac-

compt are Sold by our Factor,

Rule. [Factor at such a place, for Company Accompt between my Partner (so much of the Stock) and (so much) me, our Accompt current Dr.] To Voyage to such a place sin Company between my Partner and (Me naming our Shares) consign'd to Ditte Factor for the Nett proceed as by Advice, And

Accompts in Company.

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[Voyage to fuch a place in Company between my Partner and Me (naming our Shares of the Stock) confign'd to such a Factor. Cr. by Factor at such a place for Company Accompt between my Partner and Me, our Accompt current for the said Nett proceed.

Cafe 10. When I receive Advice that our Factor hath made A-batement for Defect in Goods Sold (between my Part-

ner and Me) in Company.

Rule. Make [Voyage to—in Company between my Partner and Me (naming our Shares always after the Name) configned to—(Factor) Dr]

To Ditto Factor for Company Accompt between my Partner and Me, for the Abatement for the Defect.

Then [Factor at fuch a place for Company Accompt between my Partner and Me, our Accompt currant]

Cr. by Voyage to—in Company between my Partner and Me, for the same Sum abated.

Case 11. When Money is remitted to me by our Factor, for Wares Sold, for Accompt of Company, and by me re-

ceived.

Rule. Make [Cash Dr.] To Factor at—for Company Accompt between my Partner and Me, our Accompt currant, for the Money received by Bill, and

Factor at—for Company Accompt between my Partner and Me, our Accompt current] Cr. by Cash for the same Sum——

Then make [my Partner's Accompt in Company Dr.] To Ditto Partner's Accompt currant for his Share in the Money received. And

My Partner's Accompt current Cr.] By Partner's Ac-

compt in Company for the fame Sum.

Note, That if this Money had been payable by Bill, at fingle or double Ufance, &c. the Entry would differ little, only instead of making [Cash Dr. to Factor, &c.] make his Accompt that accepteth the Bill, Dr. To Factor at the entry Cr.

Case 12. When I receive Wares from our Factor, in return for Wares Sold by him for Company Accompt, and pay Charges for Freight, Custom, &c. at Receipt thereof

Rule. Make [Wares received] Dr. To Factor at—for Company Accompt between my Partner and Me, our Accompt

And [Factor at — for Company Accompt between, &c. our Accompt current] Cr. by Wares received for the same Sum.

Then make [Wares received] Dr. to Cash for the Sum paid at the Receipt for Custom, &c.

And Cash Cr. By Wares received for the same Sum.

Then to place the Accompt between my Partner and

Me.

Make [my Partner's Accompt in Company] Dr. to his Accompt current for his Share, as per Invoyce of the Return Deducting his Share of the Money you pay at the Receipt.

And [my Partner's Accompt currant] Cr. by his Ac-

compt by me in Company for the same Sum

Cafe 23. When I receive Advice that my Factor has Shipp'd off and confign'd Wares to our Factor in another Country,

for Company Accompt.

Rule. Make [Voyage to configured to our Factor for Company Accompt between my Partner and Me,] Dr. to Factor at—(Viz. my Factor that Shipp'd the Goods) my Accompt current for their Value and Charges, as per Advice of my Factor.

And my Factor (that Shipp'd the Goods) at—my Accompt current Cr. By Voyage to—(Viz. the place our Factor resident at) configued to our Factor in Company

between my Partner and Me, for the same Sum.

Then make [my Partner's Accompt current] Dr. To his Accompt in Company, for his Share of the Value and Charges. And

[My Partner's Accompt in Company Cr.] By his Ac-

compt current for the same Sum-

Case 14. When Wares are returned by our Factor, to my Factor in another Country, for Wares fold for Company,

- Accompt by our faid Factor.

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To (our) Factor at—for Accompt of Company between my Partner and Me, our Accompt currant, for the Value of the Goods Shipp'd. And

(Our) Factor at—for Accompt of Company, between

**Z** 2

my Partner and Me our Accompt current] Cr. By Voyage (to fuch a place) confign'd to [my] Factor for the faid Value and Charges.

Then make [my Partner's Accompt in Company] Dr. To his Account currant for his Proportion, as per Adnick wice received of the Accompt.

His Accompt current Cr. By his Accompt in Company

' for the same Sum.

Cafe 15. When my Partner draws a Bill upon me payable at fight. Make [Partner (naming his Name) his Accompt currant] Dr. To Cash for the Content of the Bill Paid. And Cash Cr. By [my Partner's Accompt current] for

the same Sum.

Case 16. When you close an Accompt in Company, observe this Make [Wares (&c.) in Company between my Partner] (naming his Share of the Stock, and so much me) Dr. To (fundry Accompts, for closing the Accompt; &c. [To Profit and Loss for my Share of the Gain by Trading [To Ditto] for my Provision (or Employment) at so much per Cest. as by Agreement. And [Profit and Loss] Cr. By the Sum, your Provision and Share of the Gain amounts to.

Then Wares, &c. in Company (as before) Dr. To my Partner's Accompt in Company for his Share of the Gain And, &c. [His Accompt in Company Cr.] By Wares

in Company for the fame Sum.

Company Accompts are generally excemed very difficult: But if a Person has a good Understanding in proper Accounts, and Factorage, he will find this very casy, there being little Difference more than this.

1. In the Title of an Accompt in Company, To take in your Partner's Name in Company, mentioning

his and your Share of the Stock, &c.

2. After any thing is bought, fold, shipp'd off, receiv'd, &c. and Book'd as in a proper or Factorage Accompt (having respect to the Title of Company Accompt as aforesaid) you must take Care to make your Partner or Partner's Accompt current Dr. To or Cr. By his Accompt in Company for what you lay out or receive for your Partner, which you will easily know how to do by the 16 Cales foregoing.

§. 7. The

S. 7. The Menhad of keaping the Wasterbook, and Ledger.	ours	mi,	•
HE Waste-book of me C. D. of London, M. Containing all my Dealings from the Fir	lerch (t D	iani ay (	of.
In the Name of God. Amen.			
An Inventory taken July the first, containing all my Cash, Wares, and Debts, which I have at this Day. what Debts are owing by meto others, &c.	And	all	ja.
My whole Estate this Day in Money, Wares and Debts is———————————————————————————————————	<i>ii.</i> →	s. a	
(Viz.) li. s. d. Imprimis. I have in ready Cash 1540:00:00	İ		ľ
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105 C. Gallingale at 2 l. per C.—210:00:0	"		Į.
Item. I have Raw Silk, vig.			+
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these Normich Wares remaining unfold, viz.  18 Set. Denims which cost 6Leach, 108:00:0	7.	1	1
30 Grograms at 3 l. per piece 9010010 40 Barateens at 3 l. 5 l. each 130:0010 11010 14010		. T	1
88 pieces in all, which cost328:00:00	- 1		,4
Irens. I am indebted to several Persons, viz.	159	I.Olo	0
To William Richards due the 3d Instant - 150:00:00 To Richard Nicholas to Ballance his Ac-	i	+	4
dompt in my old Ledger	:		
To Simon Thuynemans due Aug. 2d 140:00:00	- 1		1

Sold George Higgs 300 to of Scammony for ready	Mo-	9. 4
ney at 20 s. 6 d. per tb.	307	1000
" dino rov by the first the		
Bought of Richard Nicholas the Norwich Water fol		;
	1. d.	
10 Grograms at 3 l. per piece ——— 30:0	4:00	•1
1 34 places it all, amounting to	4	P4 00
Of which I have paid 80 hready Money,	1 1 2 2	P4100
And the rest, which is 29 l. 4 s. to be paid in 8 I	Days.	
Date 15.		
Received Advice from Gilbert Guinwell thy Factor	of at i	
Alego, thathe hath fold to fundry Perfors for my		
compt 60 pieces of Norwich Wares; the Nett pre	ceed	-
of which the her block country there is his Accom-		
of which, as by the particulars in his Accomp	ot on	1
the File, is 1500 Dollars, the Exchange at 41	64	
the File, is 1500 Dollars, the Exchange at 4 is	337	1000
the File, is 1500 Dollars, the Exchange at 4 sper Dollar makes Sterling  Lent George Higgs the Sum of 500 k for 3 Month	1337	1000
the File, is 1500 Dollars, the Exchange at 4 sport Dollar makes Sterling  Lent George Higgs the Sum of 500 i. for 3 Month which he is to pay me Interest at the rate of 8	1337	t O 00
the File, is 1500 Dollars, the Exchange at 4 sport Dollar makes Sterling  Lent George Higgs the Sum of 500 i. for 3 Month which he is to pay me Interest at the rate of 8 Cent. per Annum.	1337 135, for 1. per	t/O/oc
the File, is 1500 Dollars, the Exchange at 4 sport Dollar makes Sterling  Lent George Higgs the Sum of 500 i. for 3 Month which he is to pay me Interest at the rate of 8	1337 135, for 1. per	
the File, is 1500 Dollars, the Exchange at 4 sport Dollar makes Sterling  Lent George Higgs the Sum of 500 i. for 3 Month which he is to pay me Interest at the rate of 8 Cent. per Annum.	1397 15,for 1. per	
the File, is 1500 Dollars, the Exchange at 4 ser Dollar makes Sterling  Lent George Higgs the Sum of 500 s. for 3 Month which he is to pay me Interest at the rate of 8 Gent. per Annum.  So that the Money lent (as entred into the Cash-line)  And the Interest thereof comes to	337 as,for i. per	
Lent George Higgs the Sum of 500 i. for 3 Month which he is to pay me Interest at the rate of 8 Gent. per Annum.  So that the Money lent (as entred into the Cash-line)  And the Interest thereof comes to  Ditto 19:	337 as,for i. per	
the File, is 1500 Dollars, the Exchange at 4 ser Dollar makes Sterling  Lent George Higgs the Sum of 500 s. for 3 Month which he is to pay me Interest at the rate of 8 Gent. per Annum.  So that the Money lent (as entred into the Cash-line)  And the Interest thereof comes to	337 as,for i. per	
Lent George Higgs the Sum of 500 i. for 3 Month which he is to pay me Interest at the rate of 8 Cent. per Annum. So that the Money lent (as entred into the Cash-line) And the Interest thereof comes to————————————————————————————————————	337 as,for i. per	
Lent George Higgs the Sum of 500 l. for 3 Month which he is to pay me Interest at the rate of 8 Cent. per Annum.  So that the Money lent (as entred into the Cash-line)  And the Interest thereof comes to  Ditto 19:  Sold William Shors the following Druggs, viz.  40 lb of Scammony at 21 s. per lb  42:	1. per 100k)	

# (3) 175 (The Method of the Entries in the Waste-book.)

July 20. 1694.  Received from my Factor Gilbert Gainwell at Aleppo, by my Order, and on my proper Accompt, 8 Chefts of Myrrh, containing 30 C. Nett, which at 22 Dollars per C. comes to 660 Dollars, the Exchange, at 54 s. per Dollar makes Sterling	Ā	1000
Richard Nicholas hath affigued the 80 k due to him from me, for the Ballance of his Accompt in my old Ledger to James Silver, which I have paid to ditto Silver on Demand	80	00.00
Ditto 25. Gilbert Gainwell Factor at Aleppo, hath remitted to me 600 Dollars payable here at double Usance, by Matthew Clessold, for the Value delivered there to Maboat Janezwar the 1st of April last, the Exchange at 4 s. 8 d. per Dollar makes serling  Which Bill is accepted.	140	00.00
Ditto 30.  Sold Alderman Ryley Mercer, the following Norwich Wares, viz.  10 Grograms, at 3 l. 10 s. per piece — 35:00:00  24 Barateens, at 4 l. 4 s. per piece — 100:16:00	a Bi (C) Vitalia - Vitalia	
For which he hath given me an Affignment on Peter Paygood, to be paid me in 8 Days, which I have accepted.	1351	600
Sold Simon Strut the following Raw Silk for ready money, viz.  3 to b of Tripoli-Belladine, at 30 s. per the wyng socion of 6 to b Legen; at 24 s. per the number folder to b in all, at	Jot	0 20

	(The Method of Journal Entries.)	•	
I 2	July 2. 1694.  Cash Debtor to Druggs for 300 th of Scammony fold George Higgs for ready Money at 20s. 6d. per lb	1. 307	s. d.
<u>.</u>	Ditto 10.  Norwich Wares Debtor to fundry Accounts 109! 4s. for 34 pieces bought of Rich. Nicholas, viz.  1s. d.	13.5.54	
	10 Grograms at 3 l. per piece 30:00:00 24 Barateens at 3 l. 6 s. each 79:04:00	Icg	2400
1 2	To Cash paid Ditto Nicholas in part—80:00:00 To Ditto Nicholas, to pay him the 25th. Instant——————————————————————————————————		3400
I	Disto 15.  Gilbert Gainwell at Aleppo my Account currant, Debtor to Voyage to Aleppo, configned to Disto Gainwell the Sum of 327 l. 10 s. for the Nett proceed of Wares fold, as per his Account for 1500 Dollars, the Exchange at 54 d. Sterling per Dollar, makes English Coin—	0.00	1000
l	George Higgs Debtor to fundry Accounts the Sum of 51cl. for 50cl. lent him at Interest for 3 Months at 8 l. per Cent. per Annum, viz. l. s. d.	40	
3	To Cash for the Principal lent—— 50000:00 To Profit and Loss for the Interest — 10000:00	10	0000
2	Ditto 19. Sundry Accounts Debtor to Druggs the Sum of 252l. for 39cl. fold W. Shirt, as followeth, l. s. d. 40 th of Scammony at 21s. per th. 42:00:00 350 th of Opium at 12s. per th. 210:00:00 (viz.)	. 10	
I Q	Cash for 160 l. received in part of Ditte Short. Ditte Short Dr. 92l. he is to pay me the 30th Inst.	252	0000

## (The Method of the Journal Entries.)

1	July 20. 1694 Druggs Debtor to Gilbers Gainwell at Aleppo my Account current, 1481. 10 s. 00 d. for 8 Chefts of Myrrh, poize Nett 30 C. at 22 Dollars per C. makes 660 Dollars, the Exchange at 54 d. per Dollar, is Sterling	148	
	Richard Nicholas Debtor to Cash the Sum of 80 L being the Ballance of an Account due to him, which I have paid James Silver by Assignation of Ditto Nicholas	<b>8</b> 0	0000
2 I	Matthew Cleffold Dr. to Gilbert Gainwell at Aleppo, my Account currant, 600 Dollars by Bill remitted to me by ditte Gainwell payable at double Ufance for the Value delivered there, to Mahoat Janeawar, the Exchange at 4s. 8 d. per Dollar, is in English Coin	140	0000
- - - - - -	Ditto 30.  Peter Paygood Debtor to Norwish Wares the Sum of 135l. 16s. for 34 pieces fold Alderman Ryley, viz.  li, s. d.  10 Grograms at 3 l. 10 s. per piece—35:00:00 24 Barateens at 4 l. 4 s. per piece—100:16:00		
	For which Sum Ditto Paygood hath given me his Bill payable in 8 days by Affignation of ditto Ryley	135	1600
3	Cash Debtor to Raw Silk 1337 l. 10 s. for 1000lb sold to Simon Strutt for Ready-money, viz. li. s. d.	1	
	350 th of Tripoly Bellad. at 301, per th 525:00:00 650 Legeo at 251, per th 812:10:00		1000
4.1	Il done to me.	37/	,

1694 July.	Housbold Expenses, Dobtor. To Cash paid Daniel Dunmuch for 1 Quarter's	li	S.	1
	Rent of my dwelling House, due at Mid-	40	10	
1	To Cash for my Pocket-Expences — ——————————————————————————————————	50	14	-
	for this Month————————————————————————————————————	50 4	4	6
	Carry'd to Cash-book, fol. 1. (See how this is posted into the Cash-book, Cr. side.)	149	4	6
(The	Form of the Book of Charges of Mercha	i -	izie	.)
1694	Charges of Merchandize, Debtor.	li.	5.	d.
July 1	To Cash paid Lawrence Lovemoney for a Quarter's Rent of my Warehouse, due at Mid-	40	1	1
	Jummer day last, and is in full ————	10		1
1 3	To Cash paid for Post-Letters ————————————————————————————————————	1	12	1
2,0	To Cash paid Freight of 8 Chests of Myrrh			1
21	To Cash paid Custom of Ditto Myrrh—— To Cash paid Wharfage, Crainage, &c. of	01	14	1
	Ditto, at 5 d. per Chest-	-1	3	4
ر جا	To Cash paid Cartage of ditto from the Key. To Cash paid Porterage this Month —		6	2
	To Cash paid Demurrage	-	4	2
	Entred in Cash-book, fol 1	92	15	11
	(See how this Month's Charges of Merchandize is posted into the Cash book, Cr. side.)		1	1

# (1) (The Form of the Cash-Book.)

### London Anno Domini, 1694.

1694 Fuly.	Cash Debtor.  Li.  To Druggs for 300 th of Scammony fold	5,
: 1.	George Higgs  To Ditto received of Will. Short in part  To Raw Silk received of Simon Strutt  To William Short, received in full  92	710
	See bow this Month's Accompt of Cash received in posted into the Account of Cash in the Ledger, Fol. (1.) Dr. side.	7

### (The Form of the Cash-Book.)

## London Anno Domini, 1894.

					1		
1694 July.	3 10	By <i>Nor</i> By G. By R. 1	Per Contra Creditor. Richards, paid him in full— wieb Wares paid R. Niebolas Higgs, lent him at Interest for Nicholas, paid James Silver b	2 Mon.	<b>50</b> 0		d.
: ;	30	By Cba By Sim By Ho	to Nicholas paid him in full— trles Rolling, paid him in full on Thuynemans, paid him in p ushold Expences this Mont	mart —	1 :		
:		fol. 1 By Character as or	arges on Merchandize this	Month		8	6
•		See be	Carried to Ledger, fol. 1.	b, paid	E 251	8	5
		. L	possed into the Account of Cassidger, Creditor-side, Fol. (1.)	b in the	`		
			် <b>ဖော်</b> သို့ ကို မြောက်သည်။ မြောက်သည်။ မြောက်သည်။ မြောက်သည်	1	** * **	1	
		ξ τ	to the state of th	, ' a y ( e *	- - -		
		· :	ويوسون والمراج المالية	-			

#### (i)

## (The Method of the Ledger Entires.)

### London Anno Domini, 1694.

1694 Fuly	Stock Debtor.  I To fundry Accounts, as per Inventory 43546 or 43546
	To Ballance 43540 01
1694 July	Cash Debtor.  To Stock, then in Chest To sundry Accounts, asper Cash-Book, f. 1.
	3437
1694 July	Norwich Wares Debtor, To fundry Accounts for 34 1,2 109 04 To Profit and Lofs gain't by this Account. 3 26 12
ļ.	13516
1694 July	To Stock for Wares unfold  To Profit and Loss gain'd by this Account  1 328  1 328  1 328
	478 02 06
1694 July	G. Gainwell my Account current Dr. To Voyage to Aleppo configned to ditto Gainwell

# (The Method of the Ledger Entries.)

## Loudon, Anno Domini, 1694.

1694 Fuly 1	By fundry Accounts, as per Inventory	Fo	710	اه	s. 10	٦
	By Profit and Loss gained by 1 Mo. Trade	3	89	6	10	0
			409	6		0
694 7 Wy 31	Per Contra Creditor.  By fundry Accounts, as per Cash-book f. 1.  By Ballance resteth Cash		125			
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		143	4	-	-
694 fuly 30	Per Contra Creditor.  By Peter Paygood for 34	2	13	5	16	
694 uly 15	Per Contra Creditor.  By Gilbert Gainwell my Account currant  By Ballance for Wares unfold	1 .4	33			0
		۷.	47	8	02	00
694 uly 20	Per Contra Creditor, By Druggs for 8 Chests of Myrrh By Matthew Clessold By Ballance due to me.	2 2 4	14 14 4	0	0	
•			33	7	C	
	•		i			

## (The Method of the Ledger Entries.)

## London, Anno Domini, 1694.

			Kan C	-			
694 fuly	1	Djuggs Debtor. To Stock	105	905	1	549	10
		To G. Gainwell, at Aleppo, my Account current To Profit and Loss Gain'd—	30		1 3	148 284	10
694 Fuly	20 25	Richard Nicholas, Del To Cash paid James Silver by To Cash paid him in full	Affig	nat.	I	981 80 29	
						109	04
694 July	25	Matthew Cressold, <i>De</i> To G. Gainwell at Aleppo my Ac		Cur.	I	140	
694	20	Peter Paygood, Debto To Norwich Wares for 34 piece	r.		1	 . 135	16

# (2) (The Method of the Ledger Entries)

## London, Anno Domini, 1694.

1694		Per Contra Creditor.	Ê	1 92		d.
J***J	,,	By Cash received in full —————	1	92		
•						
1694		Per Contra Creditor. C th				
Fuly	2 TQ	By Cash for Scammony 300 By fundry Accounts 390	I	307	to	
		By Ballance refts unfold, viz. 215 th of Opium at 61. per th 105 C. of Gallingale at 401. per C. and 30C. of Myrrh at 41.		252		
		10 s. per C. which in all cost	4	423	_	-
÷				982	10	
1694 Fuly	- T.	Per Contra Creditor  By Stock		0.		
,,	ro	By Norwich Wares, to pay the 25th Inft.	I	29		
•			1	109	04	
:	٠	Per Contra Creditor.  By Ballance due to me	4	140		_
		Per Contra Creditor.  By Ballance due to me	4	135	16	
		Вь				

# (3) (The Method of the Ledger Entries.)

## London Anno Domini, 1694.

1694 Fuly 1	George Higgs, Debtor.  To fundry Accounts for Prin. and Int.	F0 1,3	L 1	s.   d.
1694 Fuly 3	Profit and Loss, Debtor.  To Houshold Expences To Charges on Merchandize To Stock gain'd by one Month's Trade	4 4 1	91 896	
1694 July 3	Charles Rolling, Debtor. To Cash paid him in full	1	<b>14</b> 0	
1694 July	William Richards, Debtor.  To Cash paid him in full	ì	150	
1694 July	Raw Silk, Debtor.  To Stock	3		- <del> -</del>
de la constant	end and an arranged and arranged arranged and arranged and arranged and arranged ar	-	]	

# (7) (The Method of the Ledger Entries.)

## London, Anno Domini, 1694.

1694 Fuly 3	Per Contra Creditor.  By Ballance due to me.	Fo	li. 510	s. d
1694 July 1	Per Contra Creditor,  S. By G. Higgs, for Int. of 500 l. due 0 d.  By Norwich Wares gained thereby— By Voyage to Aleppo, gained thereby— By Druggs gained thereby——— By Raw Silk, gained thereby————	by —	150	12 02 0 10 10
1694 Fuly	Per Contra Creditor.  By Stock		140	
1694 Fully	Per Contra Creditor.  By Stock	1	150	
694 July 30	Per Contra Creditor.  By Cash  By Ballance then rests unfold of  Tripoly Belladine	tb 1000 1 90 4	1337	Ш
	B b a		1409	10

# (4) (The Method of the Ledger Entries.)

## London Anno Domini, 1694.

1694 July. 31	To Cash paid this Month	i I	li. 149	08.0	d.
1694 July 31	Charges on Merchandize, Debtor. To Cash paid this Month	1	92	15	11
1694 fuly. 30	Simon Thuynemans, Debtor. To Cash paid him in part To Ballance due to him	1 4	30 110	-	
1694 July. 31	Ballance Debtor.  To Cash resteth therein this Day— To Voyage to Aleppo consign'd to G. Gainwell To G. Gainwell at Aleppo, my Account Cur. To Druggs rests unsold, 215 th of Opium at 6 s. per th; 105 C. of Gallingale at 40s. and 30 C. of Myrrh at 4 l. 19 s.	1		12	07
	per C. which in all cost  To Matthew Clessold, for his Bill  To Peter Paygood  To G. Higgs for Principal and Interest  To Raw Silk, for 90 th of Tripoli Bellad  resting unfold, which cost	2 2 2	135	16	TAPI I
11		1	1656	-	01

### (The Method of the Ledger Entries.)

### London Anno Domini, 1694.

1694 July.31	Per Contra Creditor.  By Profit and Loss———————————————————————————————————	3	li. 149	- 1	
1694 Fuly. 31	Per Contra Creditor.  By Profit and Loss———————————————————————————————————	3	92	15	11
1694 July. 3	Per Contra Creditor.  By Stock	I	1 <b>4</b> 0		a lua
1624 July. 3		- 1	110 3546		, 01.
			3656		01
	velistas v				

190 Ballance converted into an Inventory.

Note, That the Transcript of the Debter-lide of the foregoing Ballance, will be an Inventory of your present Estate in Cash, Wares, and Debts; and of Creditor-lide (leaving out Stock) what you owe, by which you carry on a new Account.

#### Viz.

An Inventory taken August 1. 1694, of my present Estate in Cash, Wares, and Debts due to me; and also of what Debts are owing by me to others, Oc. viz.

	i. s. d.
Imprimie, I have in ready Cash Item, I have at Aleppo, consigned to G.	a18f:11:07
Gainwell, Norwich Wares remaining unfold, which cost	140:12:06
Item, G. Gainvell oweth me for Wares	ر برون وسب
fold by him, and their Value not re-	49;00;00
turned to me	47,00,00
Item, I have Druggs by me unfold, viz.	
Opium 215 to at 61. per lb 64:10:00	
Galling, 105 C. at 40s. per C. 210:00:00	
Myrrh 30 C. at 41. 19s. per C. 148:10:00	427'00'00
The state of the second Dill	423:00:00
Item, Matth. Clessold oweth me upon Bill	140:00:00
Atem, P. Paygood oweth me by Assignat.	135:16:00
Item, G. Higgs oweth me upon Bond —	£10:00:00 ·
Item, I have Raw Silk unfold, viz. 90 lb	
of Tripoli Belladine, at 16 s. per lb,	•
	72:00:00
1	<del>36</del> 56 <del>po</del> ;o1

On the contrary, the Debts I owe are as follows.

Viz.

To Simon Thognemans, due the 3d Inftant. 11000100

To your Ledger you must have an Alphabet, for the ready finding every Account, whether Proper or Factorage, Dome-stick or Foreign, as Men, Wares, Voyages, Profit and Loss, and Accounts current, &c. the Method whereof let be thus; of having a Page (or as there is Occasion) for each Letter:

	Viz.
	C. Cash———Fol. 1.
<b>M</b>	Charges of Merchandize
Matthew-	D.
	Druggs2
Gilbert -	Gainwell my Account current 1
•	H.
George	Higgs 3 Houshold Expences 4
	N.
Richard -	Norwich Wares
Deter	P. Paygood———————————————————————————————————
	Profit and Loss
	R. Rollings
WIIIIRM	K1Chards
• • •	Rano Silk————————————————————————————————————
William.	Stock
10	Short ————————————————————————————————————
Simon	Thuynemans ————————4
•	Voyage to Aleppo, configu'd to G. Gainwellr

#### §.8. How to post an Account.

What Posting an Account is, is shewed in the Dictionary following, and in the Method I have here laid down for Booking. Accounts are either posted,

1. Out of the Waste-book into the Journal; or,

2. Out of the Books of Houshold Expences and Charges of Merchandize into the Cash-book; or,

3. And principally, out of the Journal and Cash-book into

the Ledger.

1. In posting out of the Waste book into the Journal, you are to observe what is said in the Account given of the Journal, Chap. 10. to which I need add nothing, the Directions there, and Examples of the several Parcels in the foregoing Journal posted out of the Waste-book compared together, being sufficient to instruct the Learner how any Waste-book Parcel is posted into the Journal.

2. Whatever is paid on Account of House-keeping, &c. as is directed in the Account of the Book of Houshold Expences, Chap 10. Or, on Account of Charges of Merchandize, as you will find at the beginning of the said Chap, must, when a Month (as fanuary, February, &c.) is ended, be summ'd up, and entered on the Creditor side of the Cash-book, as you will see in the Examples of these Books foregoing, which will make it plain.

3. The chief and most considerable part of Posting is that of the Journal and Cash-book into the Ledger, especially of the Journal; which, to make as plain as I can, take the following Example, by which you will know how to post all the rest.

Example.] The 10th Day of July 1694, I find in the Journal Norwich Wares Debtor to fundry Accounts, To post which into the Ledger, I first turn to the Ledger, to see what Folio is vacant, or has room on it, which I find the 1st; therefore I turn to the Alphabet, and on the Folio Letter (N) I write [Norwich Wares, fol. 1.] as you see in the annext Alphabet; and then in the Ledger on fol. 1. I enter, in a fair large hand [Norwich Wares Dr.] in one Line, and under that the Month and Day; then [To sundry Accounts] which Accounts being Cash and R. Niebolas's, the first entered on Folio 1, the second on Folio 2; I write Folio 1, 2, in the Line after [To sundry Accounts] as you see in the Example, and the same in the long Column in the Jour-

nal.

nat. And then I consider, That if Norwich Wares is Debtor to. fundry Accounts, fol. 1, 2, viz. To Cash and R. Nicholas's, then it follows, that Cash and R. Nicholas's Account must be Creditor By Norwich Wares; I therefore turn to R. Nicholas's Account, which having before found to be on fol. 2. I enter on the Creditor-fide of his Account the Month and Day; then [By Norwich Wares] so much as left due to him, referring to the Folio on which Norwich Wares stands, viz. fol. 1. which write likewise in the Journal against Norwich Wares. Then I should turn to Cash in the Ledger, and make that Creditor by Norwich Wares; but that being done in the Cash book, 'tis suffigient if at the end of the Month I make Cash Creditor in the Ledger By fundry Accounts for all the Money paid that Month, referring to the Folio in the Cash book which that Sum is brought from: And likewise I make Cash in the (Ledger) Debtor to fundry Accounts for all the Money receiv'd that Month, as you see by the Cash-book and Account of Cash in the Ledger foregoing. By this Example, and comparing the Entries in the several Books foregoing, you will easily know how to Post any Account.

But Note, That in all Accounts of Wares you must keep in a Column next the left Hand of the Folio Column, the Pieces, Pounds, Yards, &c. bought of any Commodity, and likewise what is fold; so will you easily see how much of any fort of Goods remains unfold, without telling or numbering the same in the Warehouse; as in the Account of Norwich Wares, Druggs, and Raw Silk foregoing.

And when you have posted your Journal, you must likewise post your Cash-book for that Month, or rather post both together, taking the Days of the Month in due course; i.e. Where Cash is made Debtor to a Person for Money received, due formerly, and for which he is made Debtor in the Ledger; you must take care to give such Persons Credit for the Cash paid, which Cash being only entered in the Cash-book, you must therefore post from the Cash book. And the like where Money is paid for any Debt, the Person to whom the Cash is paid must be charged Debtor to Cash, as you will see in the Cash-book foregoing; Money received from William Short, William Short has Credit for it. And on the Creditor side of the Cash book Richard Nicholas, Charles Rolling, William Richards, Simon Thuynemans, Houshold Expences, and Charges of Merchandize, are each

each made Debtor in their several Accounts in the Ledger, To Cash paid, referring to the Account of Cash in the Ledger, and in the Account of Cash in the Ledger, referring to the Folio of the Cash-book, and entering that Folio in the Column of the Ledger-folio. For your further Information (if any is needful) see the Cash-book and the Account given thereof at the beginning of this Chapter.

#### §. 9. Directions for Clofing an Account.

What Closing an Account is, is shewed in the Dictionary; and all Accounts are closed either,

1. With Profit and Loss; or,

2. With Ballance; or,

3. With Profit, and Loss, and Ballance; or,

4. With Stock.

1. All Accounts of Goods or Wares; where all that was bought is fold, are closed with Profit and Loss, which is entered on the Debtor-fide of the Account (if you gain thereby) or on the Creditor-fide if you lose; of this the Account of Norwick Wares fol. 1 is an Example.

2: All Accounts of Men are closed with Ballance on the Debtor-fide if I owe to them, as the Account of Simon Thuymemans, Folio 4; or on the Creditor-fide if they are indebted to

me, as the Account of Matthew Cleffold, fol. 2.

3. All Accounts of Wares, where all that are bought are not fold, are closed with Profit, and Loss, and Ballance, i.e. with Profit and Loss on the Debtor-fide for the Sum gained by what is fold, and with Ballance on the Creditor-fide for what the Goods remaining unfold cost; as in the Accounts of Drugs and Raw-Silk.

4. No Accounts are closed with Stock, but Profit, and Loss, and Ballance; as in the Example following.

#### S. 10. How to Ballance your Books.

Having shewed how to close any Account, it will not be difficult to Ballance either a single Account or your whole Ledger, in order to know how much Cash, Wares, and Debts you have; what Debts you owe, and what you have gained by Trading since your last general Ballance.

3. To

creditor-fides, and put their Totals on a piece of waste Paper, where take their disterence, which is the Ballance, and must be entered on the Debtor or Creditor-side, as is taught in Closing an Account; which done, the Sum of the Debtor and Creditor-sides shall be equal.

But Note, That in an Account of Wares the said Difference is Profit or Loss, and must be entered on that side whose Sum is least, to make the Sums of Dr. and Cr. sides equal; as

taught before.

But to Ballance your Ledger for the end abovementioned.

Rule.] Take a Sheet of Paper, and on one fide write [Ballance Debtor] as you see in the foregoing Account of Ballance; and on the other side write Per Contra Creditor, as the Sheet lies extended before you.

2. Close and Ballance all your particular Accounts beginning with Cash, (except Stock, and Profit, and Los) which

having done throughout your Ledger,

3. Begin again at the Account of Cash, and where an Account is closed with Ballance, enter the same on the contrary side of the Account of Ballance in your Paper, as in the Account of Cash foregoing [Cash is Creditor] by Ballance 21871.11. 7 d. therefore Ballance (on your Paper) must be made Dr. to Cash 21851.115.7 d. so in the Account of Simon Thuymemans he is made Dr. to Ballance, and therefore Ballance must be made Cr. by Simon Thuymemans.

Likewise where an Account is closed with Profit and Loss, enter the Ballance Sum on the contrary side of the Account of Profit and Loss; as in the Account of Norwich Wares, which is closed Dr. to Profit and Loss 26%. 125.00 d. therefore Profit and Loss must be Creditor by Norwich Wares, as you see in the Account of Profit and Loss.

And where you meet with an Account closed both with Profit and Loss, and Ballance, as that of [Voyage to Aleppo, confign'd to G. Gainwell] is, because Ballance is on Cr. side, make Ballance on your Paper, Dr. to Voyage to Aleppo, &c. 150 l. 125 6d. And because the said Account of Voyage, &c. is Dr. to Profit and Loss, make the Account of Profit and Loss Cr. for the like Sum, viz. 150l. 21. 6d. And thus having guided you thro' the several Cases that may happen, proceed with the rest of the Accounts to the End of your Ledger (leaving Profit and

and Loss unclos'd, till you have clos'd and ballanc'd the rest of

the Accounts, except Stock, as before taught; then

4. Close the Account of Profit and Loss with Dr. To or Cr. By Stock, and carry the foot to the contrary side of the Account of Stock, as in the Example of the foregoing Account of Profit and Loss closed with [Dr. to Stock 8961 10s. 14.] Stock must therefore be made Cr. by Profit and Loss 8961 10s.

5. With the Difference of Dr. and Creditor-sides of Ballance, viz. with Dr. To, or Cr. By Stock, close the Account of Ballance, and carry the Foot to the Account of Stock; as in the foregoing Account of Ballance, it is so closed, Cr. by Stock 3546 l. oos. oi d. therefore Stock must be Debtor to Ballance 3546 l. oos. oi d.

6. Laftly, Sum up the Dr. and Cr. sides of the Account of Stock, and if they Ballance, or are alike, your Books have been kept right, otherwise you have committed some Error. For

this is (A General Rule for Ballance.)

Your present Stock and what you owed when you began the Account now ballanc'd, will be always equal to your Stock when you began your Accounts, and what you have gained fince, to the Day the general Ballance is made. And the Reafon of this is plain: For my former Stock and what I have gained fince must be my present Stock; as in the Example foregoing of Stock, my former Nett Stock (Debts deducted) is 2649 l. 10s. ood. and I have gained fince, as appears by the Account of Profit and Loss 896 L 10s. or d. the Sum of which is 2546 l. oo s. or d. = my prefent Stock. But if (because the Method of the Account of Stock requires it) I add my Gross Stock when I began Trade to what I have fince gained, the Sum will consequently be just so much more than my present Nett Stock as was the Sum I owed when I began Trade; which if I therefore add to my present Stock; the Sum must be equal to my former Gross Stock and the Sum gained, as 'tis plain in the Example:

For if 2649 l. 10 s. — 5.10 l. + 896:10101 be = 3548:00:01; Then it follows,

That 3159 l. 10 s. + 896:10:01, is=3546:00:01 + 510 l. (Note, That (-) is less, (+) more, and (=) equal to.)

#### CHAP. XI.

Maxims for Young Merchants, concerning the Customs and Practice of Merchants, with respect, 1. To Bills of Exchange. 2. To Factors and Factorage, Laws for Brokers, Brokerage, &c.

§ 1. Concerning Bills of Euchange.

IN Drawing a Bill the Drawer ought to respect, 1. The Place where and Time when the Bill is Drawn, and in a Foreign Bill the Exchange agreed on. 2. The Time when the Content of the Bill is payable. 3. To whom. 4. The Sum to be paid. 5. The Exchange in Words at Length. 6. Of whom the Value is received. 7. To whose Account it is to be placed. 8. The Drawer's Name. 9. A Direction thereof to him on whom the Bill is Drawn; as you will see in the Example following, under Chap. 15.

2. Bills are either Foreign or Inland.

3. Inland Bills are such as are Drawn and payable in the same Country, which ought to be payable a certain Time after Date.

4. A Bill Drawn to pay at Sight, is payable 3 Days after

the Accepter first seeth it.

5. Inland Bills were never used to be Protested until an A& made for that purpose, 10 W.3. Which A& contains as follows.

1. That the Value must be mentioned to be received, and not omitted as it is the Custom of most Drawers of Inland Bills.

2. The Money must be payable a certain number of Days, Weeks, or Months after Date.

3. The Acceptance must be in the Accepter's Hand writing; not a verbal acceptance, as most of your London Shop keepers will only do.

▲ The Protest must not be made until 3 days after the Bill is payable.

3. The Protost must be returned to the Drawer within 14 Daysafter Protest is made.

6. If not returned in that time, the Person Neglecting, to pay all Cost

Damage and Interest.

7. If any Bill be lost within the same limited for payment, the Drawer shall be obliged to give another Bill of the same Tenure with the first, upon security to indemnisse him in case the Bill so lost shall be found again.

8. This Ast extends not to Bills under 51. no more than to such as are:
not accepted in Writing, or those that do not mention the
Value received.
6. Foreign

6. Foreign Bills are fuch as are drawn in one Country to be paid in another.

7. Foreign Bills are for the most part payable at single, dos-

ble or treble Usance.

8. Usance is the Space of Time between any Day of one Month, and the same Day of the next following, as from January the 4th to Feb. 4. July 4th to Aug. 4. &c. when the place where the Bill is drawn and that where it is payable both compute their Time by one Style, as both by Old or both by New; except at some particular places, where through Custom Usance is sometimes more than a Month.

9. There is likewise a customary Allowance of certain Days after the single, double, &c. Usance, before a Bill is payable;

and this more in one Country than another.

10. So that before it can be justly told when a Foreign Bill is due there are these Things to be considered.

1. What Usance is esteem'd with respect to several Countries.
2. What places reckon their time by old and what by new Stile.

2. What days are allowed for Payment of a Bill in feveral Countries over and above their fingle, double, &c. Usance.

11. Usance from London to and from Middleburgh, Roterdam, Amferdam, Antwerp, Bruges, and other parts of the Low-countries, is I Month after the Date of the Bill, double Usance 2 Months, &c.

Usance from Venice or Florence to London in 3 Months.

Usance from Lisbon to London and Antwerp is 2 Months.

Usance from Hambourg to London and Contra is two Months.

Usance from Antwerp to Rome and Venice is 2 Months.

Usance from Genoa to Antwerp is usually two Nonths.

12. The Account of Time with respect to New and Old Stile are as follows.

These places reckon by New Stile.

Amsterdam, Roterdam, Antwerp, Leyden, Harlem, Middlehurgh, Ghent, Brussels, Brabunt, and most of the Netherlands: Also Paru, Egons, Marseilles, Bourdeaux, and all France; Lubon, O Porto, Cadix, Bilboa, and all the rest of Spain and Portugal; all Italy and Venice: Also in Germany all the Popish Electors and Princes, Amburg, Linex, Crember, Wien, Dantzick and all Poland.

These places reckon by Q. Stile, which is 11 Days after the New.

England, Scotland and Ireland, all the Protestant Electors and

Princes of Germany, Copenhagen and all Denmark; Embden, the

Protestant Cantons of Switzerland, Hamburgh, East Friezland,

**UMM** 

Geneva: All Swedon, Holffeln, Lubeck, Strasbourg; all Sanony, Riga and Leypsick.

13. The time allowed in several places for the payment of

Bills over and above the time mentioned in the Bills, is,

Days

Roterdam — 3

London — 3

Paris — 10

At Roan — 5

Hamburg — 12

Antwerp — 14

14. If a Bill is payable at Usance, it is payable 1 Month after the Date of the Bill. As if A at Amsterdam drew a Bill on L, at London, payable at Usance dated March the 2d; here I consider that Usance is 1 Month, i.e. April the 2d. But because they reckeon their time by New Stile, or 11 Days before us at London, therefore I take 11 Days from April 2, and the Remainder is March 22, to which add the 3 Days of Grace according to the Custom of London, and the Sum is March 25th, on which Day, before the Sun goes down, the Bill is due and payable by L.

15. A Merchant may deliberate 24 Hours before he needs to

accept a Foreign Bill.

16. But if he refuseth after 24 Hours Consideration to accept that Bill, the person to whom the Bill is payable may protest it in the Office of Publick Notary.

17. Protests are usually made (with relation to Foreign Bills)

either 1. For Non-acceptance.

2. For better Security; or,

3. For Non-payment.

18. If the Person on whom a Foreign Bill is drawn resule to accept the same you must take a Publick Notary to be a Witness of the Resultan (which is Noting a Bill) and protest against him for Non-acceptance; (the Form of a Protest you have in the Chapter following of Merchants Precedents: This must be done, as must all other Protests, between Sun and Sun in the day time. And tho' the Merchant you protest against be not at home, the Protest is nevertheless valid if done by a sworn Publick Notary, at the person's House or Lodging on whom the Bill is drawn.

19. Protests are made for better security when the Accepter of a Bill proves insolvent, or of bad repute.

20. Af-

20. After these Protests are drawn on a piece of paper under a Copy of the Bill, and entered in the Publick Notary's Books, the said Protest and Copy of the Bill are returned to him that paid the Value, but not the Bill it self, unless afterwards by express Order of the Remitter.

21. Upon the Receipt of a Protest of a Bill the person that paid the Value takes and goes to the Drawer to whom the Value was paid, who must give better Security if the Protest was made therefore; or if it was made for Non-acceptance, the Drawer must either give better Advice to the Person who formerly resuled to accept the Bill, or else a new Bill on some other, together with security for the payment of all Charges of Pro-

test, &c.

22. If a Foreign Bill become due and is not paid, he to whom the Money is payable must protest for Non-payment, and return the Protest and a Copy of the Bill to the deliverer of the Value, as before, who must demand the Money of the Drawer to whom the Value was paid, and of the Security if the Bill had been formerly protested for Non-acceptance or better Security. But if the Bill was accepted but not paid, then he that paid the Value upon receipt of the Protest, may oblige the Person to whom the Value was paid, to give good Security for the speedy payment of the Principal Money, with all Charges, and upon Resulal may recover the same at Law.

23. The person to whom a Bill is payable must take Care to

demand it on the very day it becomes due.

24. The Charge of noting and protesting Bills are as follows.

For Noting a Foreign Bill within the City—1 6

For Protesting a Foreign Bill without the City—2 0

An Inland Bill—6

on Rebate, &c.) before it be due, and he to whom the Money is so paid proves Insolvent, before the Time the Money is payable by the Bill, the Remitter upon Advice of his Friend's Insolvency, orders the Money to be paid to some other, which not being done, he will recover great damages of the Drawer and Accepter of the Bill, if not the whole Content thereof.

26. If a Bill of Exchange be left for Acceptance, as is com-

Moin, at the request of the Person on whom it is drawn, or his Servant; and if it be millaid or not to be found to return to the Presenter in due time, when he shall demand the same, the person on whom it is drawn shall give him to whom it is payable his Note under his Hand and Seal to pay the Money according to the Bill, which if he resuset for Non-acceptance and Non-payment, as tho' he had the Bill; otherwise the Custom of leaving Bills for Acceptance would be dissolved, and the course of Trade greatly obstructed.

27. If an accepted Foreign Bill be lost by him to whom it is payable, he must in the presence of a Publick Notary, signify the same to the Acceptor, who when the Bill becomes payable shall pay the Money, notwithstanding the Bill is lost, upon Bond or other Writing given him to bear him harmless, or to be a sufficient Vousher for the Payment of the Bill. But it the Acceptor deny to do this, he to whom the Money is payable may protest, when the Money is due, for Non-payment, and

recover the same by due course of Law.

28. There can be no revoking an accepted Bill, but the Acceptor is become absolute Debtor to him, to whom the Bill is

payable for the Content thereof.

29. If the Person to whom a Bill is payable die before it be due, there must be demand made however of the Money on the Day it becometh due. And if upon offering good Security to save the Acceptor harmless from any Action, co. of the Executors and Administrators of the Deceased he refuse to pay, you must cause Protest to be made, as is common for Non-payment.

30. If the Party that accepted a Bill die before it become due, demand must be made of his Executors or Administrators on the Day the Bill is payable, and if they refuse to pay the Bill, Protest must be made for Non-payment as if the Acceptor were

living, and had refused to pay the same.

31. The Drawer of a Bill ought at the same time to give his Correspondent a Letter of Advice, That he has drawn a Bill upon him, at such a Time, for such a Sum payable to such a Person, where he must inser the Sum payable both in Words at length and Figures, with other things, as mentioned in Article the sirst foregoing.

32. No one ought to pay a Bill without a Letter of Advice, nor any Sum by Letter of Advice, where a Bill is mentioned to be drawn, because much Damage may ensue upon several Accounts.

D d

22. If

33. If the Sum in Words at length and Figures in a Bill of Exchange do not agree, it is fafest to take that Sum which agrees with the Letter of Advice, whether it be that in Figures or Words at length, because it cannot be supposed two Mistakes should happen just alike, in writing a sum three times, tho one Mistake may be very probable. But if the three Sums all differ in the Bill and Letter of Advice, the best way is to take that Sum for true which is in Words at length in the Bill, tho the safest way is to send with all speed to the Drawer for fresh Advice. For if he on whom the Bill is drawn resule to accept it, there can no Protest be made Because the Sum is uncertain, tho if the second Bill be of the same Date with the first, there will be no time lost to the Persons to whom it is payable.

34. In drawing of Foreign Bills, it is usual, and very proper to draw two or three of the same Tenor and Date, and to send them in so many several Letters of Advice, that in case one miscarry, the course of Exchange and Trade may not be retarded or interrupted thereby. And in this the Drawer must be sure to take care, if he draws 2 Bills, to say in the 2d Bill, at such a time pay this my 2d Bill of Exchange [my sirst not paid]. Or if he draws 3 Bills, to say in the 2d [my first and third not paid, or] and in the first [my 2d and 3d not paid, or,] and in the 3d [my 1st and 2d not paid unto, or.] otherwise he on whom the Bills are drawn, might through a mistake pay more than one of the

Bills.

35. If a Bill be presented for Acceptance, and he on whom it is drawn will accept it only to pay part of the Bill, or at a longer time than is limited in the Bill, the Person to whom it is payable must protest for Non-acceptance, as is before directed. But when the Bill becomes due, and the Payer is willing to pay part; such part may be received, and Receipt given for it on the back-side of the Bill, and Protest must be made for Non-payment of the Remainder.

36. The Acceptance of a Bill by a Wife or Servant, or any other, not having an Order in Writing under Hand and Seal fo to do, from the Person on whom a Bill is drawn, is invalid, and is no legal Acceptance, unless it can be proved that such Wife, Servant, &c. used to accept Bills for such Person, the custom of which will go a great way in making the Accep-

tance sufficient.

ded it be done before Witness. But the fafelt way is to cause him

him on whom the Bill is drawn, to underwrite the Bill in these Words [Accepted by me A. B.] Or if the Bill is drawn at so many Days sight, then the Acceptor must put the Time when he accepts it, because on that depends the time of Payment, thus [Accepted July 4, 94, by me A. B.]

38. It is counted ridiculous among Marchants to say in a Bill of Exchange [pray pay, &c] it being proper and Merchant-like to say [pay, &c.] Ist. Because Bills of Exchange are to have such Honour and Respect as not to [pray]. 2d. Because Merchants being supposed Men of great Business, write only what is absolutely necessary, avoiding all Complements and supersuous Expressions. 3d. Because for the most part the Acceptor of a Bill has Effects in his Hands of the Drawer's equivalent to the Content of the Bill, which the Drawer may demand at Pleasure.

39. There are four Persons principally concerned in all Bills of Exchange. 1. The Remitter of the Money. 2. The Drawer or Indorfer, who receives the Money, and gives his Bill for it to the Remitter. 3. The Person on whom this Bill is drawn; and 4. Him to whom it is payable. the Remitter, and he to whom the Bill is payable, are Correspondents; and so are the Drawer and he on whom the Bill is drawn: So that the Drawer is answerable for his Failure on whom the Bill'is drawn; and he that paid the Value to him that is to receive it: And in default of Payment of a Bill, he to whom it is made payable certifieth the same to him of whom the Value was received, who presently takes his Course with the Drawer to whom the Value was paid, both for his Own and His Security to whom the Bill is payable; all which ought to be throughly considered, before you can have any tolerable Notion of the Mysteries of Exchange...

Obj. But some may say, That if the Person to whom a Bill is made payable, can recover his Money of the Acceptor by the course of Law without protesting, and not otherwise with pro-

testing, to what purpose are Bills protested?

Anjw. Because in case of Protesting, he to whom the Bill is payable has the Security of the Drawer, Acceptor, Indorsers, and him that paid the Value for his Money, and may Sue all or which he pleaseth by the Custom of Merchants; but he can only sue the Acceptor, and him that paid the Value, if the Protest be not made.

40. If you pay a Debt with a Bill that is payable to you or Order, you must first write your Name on the backside of the Dd 2 Bill,

Bill, which is Affigning it, as practifed among Traders. But if you pay a Debt with a Note payable to such a one or Bearer, then you only deliver the Note. And it is Wisdom in Bankers, on that pay part of a Bill or Note, to make the Indorsement cross that part which is most wrote on, to avoid Deceit by taking off the Indorsement.

\$. 2. Concerning Factors, their Power, Duty, Commissions, &c.

To make this Section Useful and Intelligible, it will be necessary to shew.

1. What a Factor is.

2. Commission to a Factor.

3. The Power of a Factor.
4. The Duty of a Factor.

5. Factorage, or Provisions due to Factors.

6 Factors, called Brokers, what they are, their Business and

Provision due to them, according to Statute.

I. A Factor is one that is imploy'd to buy and fell any kind of Merchandize for another, and different from a Servant in this; That whereas a Servant or Apprentice doth Business for a yearly Salary, or for nothing but his Charges, and serveth only his Master; a Factor doth Business for so much in every hundred Pounds worth of Goods he selleth or buyeth; which is called his Commission or Provision (as shall be shewed by and by) and is employed for several Merchants or Traders at the same time, and is not their Servant but their Factor or Correspondent.

II. Commission to a Factor, is the Order or Condition given to him by his Employer, for buying or selling any Com-

modity, by which he is to act.

All Commissions are either Absolute or Limited.

1. An absolute or persect Commission is when an Employer gives his Factor free Power to buy, sell or barter a Commodity at Discretion, or as he thinks sit; in which Commission are usually these Words [Buy (or Sell) such a Commodity as the Market goes; or [as to Price I leave it wholy to you, and desire you to all as for your self.]

But a limited Commission doth bind or tye the Factor to a certain Price for the buying or selling any kind of Merchandize; in which Commission are usually these Words [Buy (or sell) such a Commodity at so much, or if you cannot, let it alone.] Ot [If you cannot sell such a Commodity, at such a price, keep it till surber Order,] And sometimes the Word [Commission] is used for [Provision] as above.

III. The

. HI. The Power of a Factor dependent on his Commission: and if he act contrary to that, he is liable for what Losses ensue thereby. Thus, if a Pactor have a limited Commission, which orders him to sell Goods for ready Money, he has no Power to give any time, for if he does, and the Buyer proves Infolvent, the Factor must be responsible for the same to his Employer; but if this Factor had order to give time, and in that time the Buyer prove Infolvent, the Factor having observ'd his Commission, the Loss shalf be his Employers. Or if a Factor have an absolute Commission to sell Goods to whom and what time he thinks fit, then hath he the same Power with the Merchant or Employer, and is not answerable for any Loss that may be the Confequence of his Dealing, but hath likewise power to make Composition with any one that breaks or proves Insolvent, and to abate as much of a Debt due to his Employer as he pleafeth, provided his Abatement is no more than the rest of the Creditors have done.

IV. As to the Duty of a Factor, I shall shew it in most Ca-

fes as briefly as I can; which is,

1. To be very exact in observing his Commission of Order

of his Employer.

2. To be often advising the Rife or Fall of the Commodities his Employer deals in, and what fells best, and of the Course of Exchange.

3. To answer all Letters punctually and in time; but especi-

ally,

4. A Factor is obliged to advise his Employer whenever he buyeth or selleth, shippeth off, or receiveth Goods: For if he sells a parcel of Goods, and neglects to give Advice thereof, and in the mean time the Buyer proveth Insolvent, the Factor shall pay the Debr, 'altho' he had an absolute Commission as aforementioned; for no Man giveth Commission to have his Goods sold and not to know of it, the the Commission be absolute with respect to the manner of Selling.

c. If a Factor (fays Malyns) sells Goods for his own account to another payable at time, and receiveth the same when it is due, and in the mean time serreth other Mens Money remains in that Man's Hand unpaid, for Goods by him formerly sold; this Factor is to be answerable for that Money to those other Men, although the should never recover a Penny of it, for he cannot without Fraud bear with the non-payment of other Mens

Money when due, and procure the Payment of his own.

6. If a Factor buy a Commodity according to Commission, and afterwards the Price advanceth, and the Factor fraudulently converteth the Gain thereby to his own Use, the Merchant in this Case may recover Damages of his Factor, by the Custom of Merchants upon Proof thereof.

7. If a Factor, by the Advice of his Employer, buy a Commodity with his Employer's Money, or by his Credit, and his Factor without Advice selleth the same again for his own Benefit, the Merchant shall recover this Gain of the Factor, and

shall be moreover amerced for the same.

8. If a Factor fell his Employer's Goods to a Man Discredited, and that Buyer afterward breaketh before Payment, the Factor shall pay for the said Goods, unless he can prove that he was ignorant of it, and that he trusted the Man for Goods of his own also.

9. If a Factor do by false Entry in the Custom-House conceal part of the Custom, without advice of his Employer, whereby the Goods became forseit to the Prince, the said Factor shall answer the Value thereof to his Employer as they cost, if for Goods to be Transported, or as they might have been sold, if it be for Goods to be imported.

To. If a Factor or Merchant procure a Merchant Stranger Goods to pay but English Customs by faying they are his own; such Factor or Merchant shall forset all his Goods to the Queen.

11. If a Factor makes any Return to his Employer for the Nett Proceed of Goods fold, in Prohibited Goods, without Commission, the Factor shall bear the Loss or Damage; but

12. If a Factor do any unlawful Act by Order of his Employer, the Employer shall make good the same, and the Factor shall pay treble Damage.

13. If a Factor be robb'd of his Employer's Goods, he shall

bear the Loss.

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14. If a Factor buyeth Goods which afterwards become damnified by Accident, the Merchant or Employer shall bear the Loss.

15. A Factor is only chargeable with the Money which he receives for Goods fold by him, 6c, but if any part prove falle

Coin or bad, he is to make it good.

payable to a Person, that breaks before the said Bill is due to be paid; the Factor in this Case may and ought to countermand his Bill from the Acceptor, which if he have paid the broken Merchant before due, he is answerable for the same to the Factor.

17. If a

and

Goods, &c. for a certain Voyage, and have Money in his hands sufficient to pay the premium; if this Factor neglect the same, and do not Insure, and the said Ship or Goods perish at Sea; the Factor shall be answerable for the Damage to his Employer, unless he give very undeniable Reason why he did not Insure.

18. If a Factor, having made Assurance upon Goods, &c which happen to be lost, and the Factor having no Order, Libra (or Commission to act at Discretion) maketh Composition with the Assurance she shall be answerable to his Employer for what Abatements he maketh as well as for the rest that was Assured.

19. If a Factor do wrong to a Merchant by Errors in Accounts, he is to make good the same, not only the Principal, but also of the Interest thereof; and the contrary, if the Factor happen to wrong himself by not charging the Merchant, and it is therefore usual for all Factors in their Account of Sales or Invoyces, to write at the foot of the Account [Errors Excepted.]

20. Captains of Ships, &c. who do wilfully destroy any

Ship, shall suffer Death, by a Statute of Queen Ann.

V. Factorage Provision or Commission is the Wages of a Factor, and is so much to the Factor for every hundred Pounds Value of the Proceed of Goods bought or fold by the said Factor, which Provision is usually more or less, according to the distance of the Factory or place of Trade; thus,

A Merchant at London allowerh his Factor

At Barbadoes and most on the parts of the West-In-	
At Smirns or Aleppe and other 7 parts of Turky	
At Legborn and other parts of 3	Commission for buy-
Spain, Portugal or France-2	selling.
Hamburgh and other parts of 32 the East-land	
Determinant and allege are also	
Inland Factors have usually——11	1. 1.
Which Factorage or Commission Mone other Charges the Factor has been at cer's Goods as Warehouse Room Brokage	oncerning his Employ-
→ a Choomatas & STEHOME TOOM TOLOTSE	c. w narrage. Chitom. crc.

and being deducted out of the total Sum the Pactor, fold his Bimployer's Goods for, the Remainder is called the Nett proceed of the Account.

VI. Brokers are a kind of Factors, there being Brokers for almost all kind of Traders, who are usually decay'd Merchants of Men that know their Trade well, but perhaps have not a Stock to set up to trade themselves, having great Acquaintance, they are employ'd by Merchants to bring Customers to buy their Merchandize, for which the Merchants usually allow the Brokers about half per Cent. These Men are mostly of known Integrity, and upon the Broker's word, the Merchants often, give the Buyers Credit for many hundred pounds worth of Goods.

There are also other kind of Brokers, vic. Exchange-Bro-

kers, and Brokers of Stock. .

exchange-Brokers make it their Business to know the Alteration of the Course of Exchange; and to inform Merchants that have Money to receive or pay beyond Sea, who are proper Persons for exchanging or doing thereof; as if I have 100 l. Sterling to be paid at Reserdam, &c. the Exchange-Broker finds me out a Man to whom if I pay the Money here, will give me his Bill drawn upon his Correspondent to pay the like Sum there to my Factor or Order. Or if I have 1000 l. to receive here from my Factor at Hamburgh, &c. this Broker will find me out a Person that will pay me the Money here, on Condition of my Bill drawn on my Factor to pay the like Sum in Flemish Money to his Correspondent there; for which he has Brokage (as also to other places) is a per hundred Pound Sterling.

Brokers of Stock are such as buy and fell Shares in Joint Stocks for any one that shall desire them; as if I amminded to buy two Shares in the East-India Stock, I speak to a Broker if he knows of any to sell, he enquires and finds one that will sell two Shares, which the Broker buyeth for me at the Price currant on the Exchange, and when the same are transferred to me in the Company's Book, I pay for them. And it has been usual to give these Brokers for their Brokage or Provision as followeth.

For Hudson's-Bay Stock—or or oo oo of oo per Share.

Africa Stock, or other perty Stocks, as Glass, Lead, oo of oo

Linnen, Copper, or.

And at this Rate there are some
have got tooo or rido! per An.

But

But now the number of Brokers and their Brokage are Ringted by a Statute made Anno 8. and 9. Will. III. and Rev. 11. and 12. W. III. for 7 Years from Michael. 1750, and fince Reviv'd, which being requisite to be known both by Brokers Merchants, and other Traders, I have inserted the Heads thereof, as follows.

I. No Person shall follow the Employment of a Broker, nor act as such within the Bills of Mortality of the City of London, until he be admitted by the Lord-Mayor and Aldermen of the said City.

2. All Brokers shall at their Admittance take an Oath truly and faithfully to perform that Office between party and party without Fraud

or Collusion, according to this Act.

3. All Brokers within 3 Months after such Admittance, shall take the Oath of Allegiance and Supremacy, as by the Statute 1 W. and M. and shall sign the Association appointed by an Ait 7 W. III and shall enter into a Bond to the Lord Mayor, Citizens and Commonalty, of the Penalty of 500 l. (the Condition to which, as in this Att verbatim is expressed, you will find in the Chapter of Precedents following.

4. The Number of these Brokers (including all sorts beforementioned,

viz. Exchange, Trade, and Stock-Brokers) are not to exceed 100.

Shilling's.

6. The Names of the Brokers admitted, shall be affix'd on the Royal Exchange, Guild Hall, and other publick places, as the Lord Mayor, &c. shall think fix.

7. Any one using the Trade or Employment of a Broker, who is not legally admitted, shall forfeit 500 l. over and above all other Forfeitures by this Ast.

8. And if any Person employ any Broker that is not thus legally

fworn and admitted, such Person shall forfeit 50 1.

9. And if any Person not being a sworn Broker, according to the betrue intent and meaning of this Act, shall deal as a Broker in discounting Tallies, Exchequer Bills, Bank Bills or Notes, or in Stock-jobbing, or selling of Bank-Stock, or to any other Interest or Security upon any Fund granted by Parliament: Such Person offending shall forfeit 500 1. and being legally convicted shall stand in the Pillory 3 several Days one Hour in the Morning of each Day.

10. Every sworn Broker admitted as aforesaid, shall keep a Book, which shall be called the Broker's Book, wherein shall be fairly entered will Contracts and Bargains, within 3 Days after making thereof, therein inserting the Buyer and Seller's Names, to the end such Book may be pro-

duc'd when lawfully required; and the Broker emitting to keep such Book hall forfeit so L

II. Any Broker taking above Io s. per Cent. (i. c. per bundred pound value of the thing bought or sold) for Brokerage, shall forfeit 10 L

12. All Brokers legally sworn and admitted seconding to this Statute. hall carry about them a Silver Medal, baving on one side his Majesty's Coat of Arms, and on the Reverse the Arms of the City of London, with the Name of such Broker, who shall at the concluding of all Bargains, Contracts, and Agreements by him made, produce such Medal to

the Parties concerned, or shall forfeit 40 s. for every Osnifica.

12. And if any Broker lawfully admitted shall deal for himsolf in En change or Remittance of Money, or shall buy any Tallies, Orders, Bills or Share, or Interest in any Joint Stock, to be assigned or transferred to bis own Use; or shall buy any Goods, Wares, Merchandize to sell ugain for his own benefit, or shall make any gain or profit in buying or Celling any Goods over and above the Brokerage, he fall forfest 2001 and being convicted shall be uneapable to Trade, Act, or Deal as a Broker for

any person what sever,

14. All Contracts entered into or made by any person what sever, to be performed after the first of May, 1697. and upon which any Præmium already is, or fleall bereafter be given for Liberty to put upon, Accept, Receive, Deliver or Refuse any Share or Interest in any Joint Stock, Tallies, Orders, Exchequer Bills, Exchequer Tickets, or Bank Bills what sever (except such Contracts of the nature aforesaid as are to be performed within 2 days, to be accounted from the time of making the same) is, and shall be utterly null and void; and overy such Premium shall be paid back and restored to those that gave the same, their Exemtors, Administrators or Assigns.

15. And if any Pranium shall be given or paid contrary to this Ad. er if any Person shall Trade or Deal as a Broker, not duly admisted acearding to this Act, and the same shall come to the Knowledge of the Broker, if he doth not forthwith make Discovery, but shall conceal such Offence, upon due proof thereof before the Lord Mayor and Court of Almen of the City of London against such sworn Broker, be shall be difplac'd, and be for ever incapable to act or deal as a Broker for the future.

16. The Forfeitures given by this Act shall be recovered by Action of Debt, Bill, Plaint or Information, in any of his Majefty's Courts of Record at Westmirster, in which no Essin, Priviledge, Protection, or Wager of Law shall be allowed, and but one Impuriance, the one Moiety whereof shall be to the use of the Queen, Her Heirs and Successors, and the other to the Profecutor.

The Provided that no perfect for buying and selling Civil, Cattle, we called Provided that no persect for buying and selling Civil at the meaning

of this Att.

18. That no Broker shall buy, sell, or bargain for Money, any Talliet or other Securities upon any Fund granted by Parliament, unless be be licensed so to do by any of the three Lords of the Treasurys under the penalty of forfeiting 500 L. Vide also the Stat. 6. Queen Ann.

As to Pawn-Brokers or Tally men, I think it not worth while to fay any thing of them, but the Reader may find what they are in the Dictionary following.

### CHAP. XII.

Sheweth the Product or Commodities produced by all the Countries in the World, with the chief Towns of Trade and Bigness of the Country, compared with England.

1. Great Britain produceth these following. Esides the various kinds of Cattel, Deer, Fowl, (wild and tame) Fish, Grain, Fruits of the Field, Orchards and Gardens, &c. which would be too tedious, and not so proper for my present Subject, there are very fine and great abundance of Sheeps-Wool, as that of Herefordsbire, Leicestersbire, and the Isle of Wight, which maketh Woollen Cloth (near as fine as the Spanish), as that of Devonsbire, Gloucestershire, Yorkshire, &c. Stuffs, as those of Norwich Crapes, Grograms, Barateens, Camlets, Calamancos, Anterines, Paragons, &c. of Exeter, as Says, Semperernums, Perpetuano's, &c. Druggets, Serges, Fultians, -Bays, Silks, Velvets, Sattins, Flannels, Linnen-Cloth, and Plax, and Hemp, on which they are made; also very good Paper made of Linnen-Cloth, Hats, Rugs, Bed-ticking; excellent Leather of almost all sorts; Tin, Copper, Lead, Allome, Copperas; good Silver and Iron, and things made thereof; Stockings of all Sorts, as Silk, Worsted, Woollen and Thread; all

forts of Ironmongers Wares, Tallow, Hides, Oyls, Hops, But ter, Cheefe, Honey, Wax, Glew, Salt-petre, Gun powder, Tobacco-pipe, Brick, Lyme, Slate, Marble, Alabaster, and other Stones little inferiour to Diamonds; Salt, Soap, Potashes, Glass, and Sastron the best in the World; Sea-Coal, and Stots Coal, in the North called Cannel; Liquors of Malt and Apples, &c. as Beer, Ale, Syder, Perry, Metheglin, Brandy, Mum, also Mead, besides several forts of Wines not much inferiour to those of Spain and France, as Elderberry, Strawberry, Gooseberry, Rasberry, and many others. It containeth 38 Counties of England, 16 Counties of Wales, and 35 of Scotland; Chief City London; and of Trade, London, Bristol, Leverpoole, Newcastle, Hull, Plymouth, and Norwich in England; Edinburgh, Aberdeen, St. Andrews, Glascow and Lieth in Sootland.

2. Ireland produces these Commodities,
Wool, Yarn, (excellent good) Flax, Linnen-Cloth, Furrs,
Hides, Tallow, Hemp, Honey, Wax, Herrings, and many
other Sorts of Fish; Frizes, Rugs, Salt-beef, Pipe staves, Cattel (black and white) Butter, Cheese, Salt, Wheat (and most
other Grains,) Iron, Lead. It containeth 32 Counties, the
chief Towns of Trade, Dublin, Kingsale, Galloway, Limerick,

Drogheda. This Country is about 3 of England.

3. France produces these Commodities chiefty,

Wines, Paper, Almonds, Corral, Linnen Cloth (as Dowlas, Lockrams, &c.) Salt, Brandy, Silks, Velvets, Buckrams, playing Cards, Glass, Wheat, and all kind of Grain, Rosen, Pruons. It containeth 12 Governments, besides the Dutchy of Lorain and French Compte; Para is the chief City, but the chief for Trade are Nantz, Bourdeaux, Lyons and Morlaix. This Country is near 2 times as big as England.

4. The Low Countries, or 17 Provinces chiefly produce,

Tapestry, Fine Linnen, Silks, Velvets, Ropes, Butter, Cheese, Buffs, Leather, Ox-Hides, Armour, Bruges Thread, Chimney-Backs, Steel, Hopps, Brushes, Grograms, Camblets, Fine Tape, Bottles, Pots, large Horses, Salt, Soap, Sword-Blades, Oe. Chief City of the 7 United Provinces, Amsterdam, and of the 10 Spanish, Answerp; and chief of Trade Amsterdam, Ratterdam, Bruges, Answerp and Middleburgh. These 17 Provinces are about; of England.

5. Spain and Portugal produce ebiefly these Commodities.
Wine, Wool, Mader, Sugar, Oyls, Almonds, Anchovies,
Anniseeds, Figs, Raisons, Bayberries, Oranges, Lemons, Saffron,

fron, Soap, Iron, Allom, White Marble, Licoras, Shumack, Cork, Woad, Rice, Silk, and Lamb-Skins: It is divided into 20 Kingdoms and Provinces, the chief Town is Madrid; but the chief for Trade are Bilboa, Cadix, Lisbon, Galicia, Barcelona, Malaga and Sevil; and is more than twice as big as England.

6. Italy, (including the Commonwealth of Venice) produceth chiefly these Commodities,

Sarsanets, Velvets, Taffata's, Fustians, Cloth of Gold and Silver; Wine, Cottons, Currans, Rice, Raw-Silk, Allom, Vitriol, fine Glass, Grograms, Thrown-Silk, Sattin, Corn, Oyl, cre. Its divided into 12 Provinces, besides the Isles of Sicily, Sardinia and Corsica; the chief Ciry of all which is Rome, but the chief of Trade are Legborn, Venice, Genoa, Milan, Messima and Palermo. This Country is (with the Isles) as big as one and a half of England.

7. Germany produces chiefly these Commodities.

Wool, Steel, Lattin, and Iron-wire, Fustians, Lead, Coperas, Allom, Hams, Linnen-Cloth, Yarn, Paper, Bell-metal, Quicksilver, Mum, Rhenish Wine, Tinn, and many Iron-works: It is divided into to Circles, the chief City is Vienna, of Trade, Vienna, Norremberg, Quedlinburg, Brunswick, Emden, Straeburgh, Frankfort, Cologne, This Country is more than 3 times as big as England.

8. Sweden, Norway, Denmark, and Places about the Baltick

Sea, produce

Ox-hides, Goat and Buck-Skins, rich Furrs, Metals, Oak, Firr, Honey, Tallow, Bow-staves, Ashes, Cables, Canvas, Masts, Dale and Clap-boards, Pitch and Tarr, Cordage, Ropes, Hemp, Flax, Linnen, Yarn, Stocksish, Wax, Wainscote, Wheat, Rye, &c. Chief Towns of Trade, Hamburgh, Copenhagen, Stockholm, Wiborg, Sleswick, Lubeck, Bergen, Calmar, Abo, Notteburgh, Bremen, Narva, Leipsick and Riga; these contain 13 Provinces or Parts. Sweden is twice as big as Denmark, and together, they are more than 4 times as big as England.

9. Poland produceth chiefly.

Masts for Ships, Linnen, Pitch, rich Furrs, Wax, Boards, Salt, Amber, Ashes, Milk, Butter, Cheele, Rosin, Soap, Corn. It is divided into 12 Provinces, chief Town is Cracaw, and of Trade, Dantzick, Wilna, Warsaw, Cracaw and Breste. This Country is about 3 times as big as England.

TO. Rid

vo. Ruffia, or Muscovy, produced chiefly

Fine Leather, Furts, Martins, Sables, Train Oyl, Wax, Honey, Slad, Hemp, Flax, Iron, Salt-petre, Brimstone, &c. It is divided into 27 Provinces, chief Town Moscow, and of Trade Moscow, Archangel, Kola and Regun. This Country is about 12 Times as big as England, but a great part of it is uninhabited.

11. Turky in Europe produceth chiefly

Wines, Oyl, Mettals, Damasks, Velvets, Vitriol, Sulphur, Tarky Grograms, &c. It contains 18 Provinces; chief Town is Conftantinople, and of Trade, Nipoli, Missibra, Corfu, Scionichi, Belgrade, Adrianople, Setines, and Biulogrod or Budizlack. This Country is about 5 times as big as England.

12. Turky in Asia, producetb

Raw Silk, Cotton-Wool, Druggs, as Opium, Gauls, Rubarb, oc. Soap, Camlets, Tapestry, excellent Balm, Wine, Oyl, Cotton-Yarn, Mohair, Honey, Goats-hair, Worfted, Box-wood, and many other Commodities of leffer Note. This is that part of the World which the Famous Turky Company bring all their rich Ships from, and it is divided into 2 Parts, Natolia, Syria, and Armenia, and they are subdivided into 19 Beglerbegs, befides the Isles of Cyprus and Rholes, &c. The chief Towns of Trade are Aleppo, (the Chief of this Country) Scanderoon, Smyrna, Famagustu (in Crores) Maraz, Acfar, Bursa, Tarso, Cogni, Amasia, Acra, Ham, Tripoli, Scham, Damas, Gaza, Jerufalem, Arzerum, and Balfora. This Country is about 6 times as big as England, to which adding the Turks Dominions in Esrope, and those in Africa, as Egypt, with part of Barbary, Abiffywia and Zauguebar, makes the whole Turks Dominions about 18 times as big as England, which is but to of the whole Earth, alcho' they are vulgarly accounted 4 thereof.

Gold, precious Stones, Coffee, Cinnamon, Myrrh, Balm, Frankincense, Benjamin, Manna, Cassia, Tea, &c. Chief Towns of Trade are Medina, (chief of the Country,) Mecca, Aylan, Heratt, Junama, Ziden and Dhafar. This Country is about is times as big as England, and borders South West on the Red Sea, where the Children of Israel passed through on dry Land.

14: Persia produceth chiesty

Precious Stones, especially rough Diamonds: Manufactures of Gold and Silver, rich Silks, Carpets, Sele-skins, Goat-skins, Ala-

Aizhaller, Myrih, Fruit, and almost ail-lines of Motals. Chief Towns of Trade are Islands (the chief of this Country). Ormer, Saisfer, Siepear, Shirar, Lar and Taures. This Country is about 22 times as big as England.

1 c. The East-Indies predicationly Callicoce, Canes, Cottons, Velvers, Silk, Taffata's, Carpens, Mullain, Indigo, Aloes, Sattins, Salt petre, Spices, Amber, Bosax, Ambergreece, Rhubarb, Wormseed, Sal Armoniac, Rice, Tea, Fans for Women, Cornelion Rings, Aggats, rough Diamonds; Pearl, China-Ware, Cocoa-Nutts, Cinnamon, Ginger, Pepper, Cassa, Gold and Silver, Proceline Earth, Bengales. and Adabaster. Chief Towns of Trade are (on this side the Paninsula or nearest Part of India, on the Malebar Coast) Survet Bombey, Cambay, Gos and Damon; and on the farther side the Peninsula, on the Cormandel Coast, &c. the chief Towns are Fort St. George, Bisnagar, Malsupur, Negapitan ; Hughley, Balescar, and Agra the Seat of the Great Mogul: Also Achim, Bencouli and Indrapore English Factories on the Coast of the Island of Sumatra. which (tho' near) are not in the Territories of the Mogul. This. Country of the Mogul's Empire is about 19 times as big as Engloud:

Gold, Sibrer, precions Stones, Proceline Dishes, China-ware, Quickfilver, China-wood, Sugar, Cottons, Silks, Camphire, Ruberb, Civet, Musk, Ginger. Chief Towns of Trade are Pekin, Caebao, Kianguing, Hangchen, Cinan, Ham, Domes and Quangeben. This Country of China is about 18 times as big as England, and is said to have in it 1484 Cities.

Rich Furrs, as Sables and Martins; Musk, Cinnamon, Silk, Flax, Camlers; Rhubarb, and other Druggs. This Country is the biggest Empire in the World, being 70 times as big as England, the the N. E. is little known.

Bevers, Martins, and other Furrs; Leather, Wan, Linnen, Thread, Honey. Chief Towns of Trade, Teffer, Sophie and Zittech. This Countrey is about a times as big as England.

Gold, Ambergreece, Elephants-teech, Guinea pepper, Redwood, Hides, Wax, Sanders, Sugar, Civet, Oyl, Cordovans, Hemp, Flax, Dates, Almonds, Indigo, Gum, Offrich feathers, Amber, Ebony, Canes, Rice, Citrons, Lemons, Copper, Cocoanurs, Cloves, Saffron, Criftal, and abundance of Negroes. which furnish our Plantations in America with Slaves. In this Country the Royal African Company have had several Factories along the Sea-Coast, between Guines and the Cape of Good Hope, 26 St. James's Fort in the River Gambia, Siorra-Lèona, Sherbero, Madre-Bomba, Cape Misserado, Cormontyn, Emaébam, Rio Namo, the Ivory Coaft, Widdab, and Cape Corfe Caftle on the Gold Coaft, some of which are now under the Dutch. There are likewise many curious Towns of Trade or Ports in Barbary, as Sally, Morocco, Tangier, Fez, Centa, Algiers, Santha Crux, Saphia, Tripoli and Barca. And the Madagascar He produceth Ginger, Cloves, Red Sanders, Saffron, Wax, Amber, Gum, Ebony, Christal, Cocoa-nuts and Metals, Chief Towns of Trade, Charemboule and Faushere. A. frica is about 120 times as big as England, and the Isle of Madarascar is near 2 times as big as England.

20. America produceth chiefly,

. 1. About the North Part, the Hudson's Bay Company bring Bever and other rich Furrs, Whale Oyl, Stock-Fish, &c. Their chief Towns and Places of Trade are Inquebet, Quebeck, Port Nelson, Hudson's Bay, Padousack, Brest and Port-Royal. 2. The middle part produces these excellent Commedities, viz. Cottonwool, Sugar, Tobacco, Furrs, Indigo, Ginger, Cloves, Mace, Nutmegs, Rosin, Turpentine, Copper, Tarr, Deal-boards, Gold, Silver, Pearls, Cocoa-nuts, Cocheneal, Honey, Balm, Amber, Hides, Tallow, Salt, Medicinal Drugs, Logwood. Chief Towns of Trade are Boston and London in New England, New York; Philadelphia in Pensilvania; Oxford in Maryland; James Town and Wiccomoco in Virginia; Charles Town in Carolina; Port-Royal, Sevil, and St. Jago in Jamaica; Antego and Barbadoes in the Charibbee Isles, and also Portobell, Panama, Cartagena, Carasa, Caracco, Porto Rico, Acapulco, Mexico and Vera Cruz. 2. The South Part of America produceth, beside Venison, Fish and Fowl, Gold and Silver in abundance, Balfam, precious Stones, Long-pepper, Gums, Rofin, Drugs, Cottons, Tobacco, Cocheneal, Brasilwood, Sugar, Train-Oyl, Brass, Iron, Copper, Honey. Chief Towns of Trade, Caremanta, St. Magwel and Morequinto in Firmland; Poston, Cusco, Lima, Guiaquill, Buela, and Creux de Nueva in Peru; St. Salvado, St. Vincent and St. Sebaltian in Brafil; Assumption, Conception, Villa-Rico and Cividad in Paraguay; and St. Jago, Mondoe and Serons in Chili. This Part of the World, called someries, is about 90 times as big as England. CHAP-

# CHAP. XIII.

Concerning the New Rates of Post-Letters, as by the Statute, Anno Nono Reginæ (or 9th of Q. Ann). And other Things in that Act relating to Merchants.

### Foreign European Letters and Packets.

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United Provinces	From any part of the United Provinces to London	<b>\{ 0</b> :10	1 1 8	2:6	3:4
•	From London through the U- nited Provinces, for any part	j	'	1	
	of Italy or Sicily; and the contrary	<b>\</b> 1::	2:0	3:0	4:0
Germany, Smitzerl. Denmark, Smeden.		\ \ \ \ \ : \ \	2:(	2:0	4:0
	From London through the U- nited Provinces, unto any part of Spain or Portugal; and the contrary	\{\bar{z} : (	613:	4 : 6	6:0
:	From London, through the Spanish Netherlands, or the United Previnces, to Hambourg (Port paid to Ant-werp or Amsterdam); and the contary	);; °	1:1	32:6	3:4

# By Packet-Boats.

Between London, Spain or Portugal 1: 6|3:0|4:6|6:0|

Ireland Letters and Packets.

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on nor from on board a Ship )	20:4	0:60:	8
nor directed on Ship-board		0:9[:	ı
Miles from Edinburgh in Scotland, &c. S Note, That Writs, &c. inclosed, are liable to p Ounce, respectively in Great Britain and Ireland	ay in or	I: OI:	-
English, or South British, or Inland Lette	rs are	Racd thu	u.
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in New-Hampshire in New-England:		1		1					-
And to Annapolis the chief Town		1		1					1
in Maryland; and from each of those	1	1		1					1
places to New York -	,			1					-
From Newport, Boston, Portsmouth and	)	1		1					1
Annapolis aforesaid, to any place	<b>So:</b>	40	: 1	81	:	0	1	:	4
not exceeding 60 English Miles;	(	1			·				7
and back	?	ı							1
And from those Towns, not exceeding	7		•	1		- 1	ŀ	-	1
100 English Miles, and thence	، : ٥ح	6  x	•	D I	:	6	2	:	O
back ———————	)	1		1					1
From New York to the chief Offices	)	ł					ŀ		1
in Salem and Ipswich, and in Pisca-	٠ <b>٠</b>	3 2	•	مرار			-		
taway, and to Williamsburgo in Vir-	(- • :	"	• '	73	•	٦	•	•	٦
ginia and those places to New York.	<i>)</i>	ł		1					1
From the chief Offices in Salem, Ip-	3	I	•	1	٠	- 1	•		
fwich, Pifcataway and Williamsburgh			_						
aforesaid, to any place not exceed-	<b>&gt;</b> 0 : 4	HO.	: 1	3 [	:	o	I	:	4
ing 60 English Miles; and the	þ	ı		ı		1			1
contrary	<b> </b>	1		1		١			1
And from those Towns, not exceed-	( →			1					1
ing 100 English Miles, and the	?o: 0	2 2	: (	1	:	6	2	:	o
contrary	<b>)</b> .	ı		-		į			
From New York to Charles-Town, the	?								1
chief Town in Carolina; and the	<b>&gt;</b> 1 : 6	5/2	: 0	4	:	6	6	:	0
Contrary	•	ľ		1					1
From Charles-Town aforesaid to any	)	1		1		1	ľ		
place not exceeding 60 English	<b>\</b> o': A	اما	. 8	3 7	•	0	r	:	1
Miles; and the contrary —	<b>)</b>	1	•		•		•	•	7
And all Letters and Packets from	)								1
Charles-Town aforefaid to any place	<b>S</b> a.,	4.				2			٦
not exceeding 100 English Miles,	<b>\</b> ~.,	7	• (	1	٠	٥	Z	•	7
and thence back again		•		ŧ			ļ		į

And all Letters, and Packets of Letters directed to on from on board any Ship in any Port within her Majesty's Dominions, shall pay one Penny over and above the Rates Chargeable by this Act.

Penny-Post Letters, within the Bills of Mortality, and 10 Miles round from the General Letter Office in London, pay as be-

fore this Act was made.

Note, That by a Proviso in the abovesaid AA, all Merchants Accompts not exceeding one Shoet of Paper, and all Bills of Exchange, and Invoyces, and Bills of Lading are allowed without Rate. And also allowers of Letters not exceeding a Quarter of a Sheet of Paper, sent by the Way of Vienne, Marfeilles, Venice or Leghons, to be sent to or from Turky, shall pass without Rate.

No Packet to be carried out of Great Britain in Foreign Ships: The Post to pay nothing for passing Ferries in North America. Inland Letters to pay where delivered. And the Two Uni-

wersities to pay as before the making of this Act.

All Letters on board any Ships that may touch in any Port, shall, under the Penalty of Five Pounds for every Offence, be delivered to the Deputy Post-Master of such place, who shall pay to the Person delivering the same, a Penny a Letter.

Carriers, Coaches, and Watermen, are not to carry Letters; unless they concern the Goods carried by their Carrs, Wag-

gons, or Pack-Horses at the same time.

The Days of sending Letters to Foreign Parts, are, Monday] To France, Italy, Spain, Flanders, Germany, Sweden and Denmark.

Inefday] To Holland, Flanders, Sweden, Denmark, Germany, and all parts of England, Wales, Seetland and Ireland.

Thursday To France, Spain, Balp, and all parts of England and Scotland.

Friday] To the Notherlands, Germany, Sweden, Donmark. Saturday] To all parts of England, Scotland and Indand.

To Portugal once a Fortnight; and to the West Indies the last Thursday in every Month.

The Day Foreign Mails are due at London.
Tuefday and Friday | From Holland and France,
Monday and Thurfday | From Elanders.

Monday, Wednesday and Friday From Ireland.
Once a Week from Portugal, Spain, &c.

CHAP-

## CHAP. XIV.

A DICTIONARY, or Alphabetical Explananation, of the most difficult Terms commonly used in Merchandize and Trade; and shews the Value of Coins, Weights, Measures, &c.

Bashee.] Sixteen Pence Sterling in Perfes.

wherein the Sale of Goods is

expressed.

Agai.] The Difference in Holland or Venice of the Value of currant Money and Bank-Notes, which in Holland is often 3 or 4 per Cent. in favour of the Notes.

Allotting of Goods.] Is when a Ship's Cargo is divided into feveral Parts, which are so be bought by divers Persons whose Names are wrote on as many pieces of Paper, which are applyed by an indifferent Person so the feveral Loss or Parcels; and by this means the Goods are divided without Partiality, for every Man has the Parcel of Goods, that the Lot with his Name on is appropriated to. Vid. Inch of Candle.

Alquier.] A Corn Measure at Lisbon, 1 Peck, 2 Quarts, and I Pint.

Akiem] Museowy Money, 3

Capecks, or a FPence Sterling. vide Capeck.

Ana ] An East India Coin. 4. Account of Saks. An Account Pyce, or 1 12 d. Sterling. See. Rupee.

> Anchor I Of Brandy, &c. in Holland, 10 English Wine Gallons.

> Apparel] (of a Ship). the Sails.

> Arbitration.] Is when two-Traders, &c. cannot agree as bout the Terms of fome Contract, they each choose a Man to make an End of the Difference; and if these two cannot agree, the Matter is usually refer'd to a third Personcalled an Umpire, to whole. Decision both sides are obliged to acquiesce. Vik Stat. 9, 10. W. 2

> Archtelin. A Corn Measure at Rotterdam, being a Pecks, 5 Quarts, and near 1 Pint.

Arrear.] Behind-hand or ow-

ing.

Afar.]. A Gold Coin at Ormus in the Persian Gulph, about 6s. 8d. Sterling.

Asper.]

thee Farthings in Value, or 80 | is I Lyon Dollar.

Assignee ] One to whom a sold. thing is lawfully affigned or

made over.

Average.] Is 1st. The general Allowance made to a Master of a Ship of 1 d. or 2 d. in every Shilling Freight (as mentioned in the Bill of Lading.) Or 2. An Allowance to him upon special Occasions, when he fustains Damage, which is equally divided upon all his Freight, and paid by each Merchant according to his Cargo. Or, 3. The Contribution that several Insurors pay to make good the Loss of Goods cast over-board, which are by them infured.

Auln Vid. Exchange of Coin

of the Par of Exchange.

Aume. (of Rhenish Wine) is forty two Gallons, or a Tergian of a Pipe.

Bagg.] An uncertain Quantity, as of

Almonds about 2 C.

Anniseeds—3 to 4 C. Pepper— $1 \stackrel{1}{\leftarrow} to 2 C$ .

Goats-Hair- 2 to 4 C.

Cotton-yarn 2½ to 4½ C. &c. Babar.] At Moca in the East indies 286 lb Averdupois; it contains 15 Fracelloes, each 24 Rotelloes, 14 Ounces of 10 Drams each Ounce. But at the

Asper.] A Turkish Coin of Molucca's, the great Babar is 6250 th and the less 625 th. Averdupois, by which Spice is

> Bale.] A Pack of Merchandize, but is of different Quan- e tity, as of

Cotton-Yarn 3 to 4 C.

Raw-Silk — 1 to 4 C.

Lockram or Dowlas, 3, 31, or 4 Pieces.

Ballance an Account. To make the Debtor and Creditor sides alike in the Sums. See Chap. 10. 9. 10.

Bamboe.] A fort of Cane; al-10 an East India Measure, s

Pints English.

Bancal A Weight in Eaft-India, 16 2 Drams Averdupois. Vide Caty.

Bankrupts.] (See Letter C)

Baratry.] (of the Master of a Ship, &c. Is his cheating the Owners or Infurers, either by running away with their Ship, or imbezeling their Goods, &c.

Barter.] (or Commutation) To Truck or Change one Commodity for another.

Basket.] An uncertain Quan-

tity, as of

Medlers 2 Bushels.

Allafætida 20 to 50lb Weight.

Batch.] Four Cruetzers in Germany, or 2 Pence 2 Farthings 3 Sterling.

Batman.] Vide Exchange of

Coin.

But 1 A Piece of German [fent to the Factor to whom Coin wanting only to of a Penny of being three Pence Sterling.

Bencovett.] (or Berquet) 10 Pood in Russia, or 272 th A. verdupois; by which Weight Hemp and other groß Goods

are weigh'd.

Belle. A Copper Coin at Orms in the Persian Gulph, 4 Cosbeg (1 d. 2 \frac{1}{2} qr. Sterling.) Bill of Debt. | See Chap. 15.

Bill of Entry.] Is an Account of the Goods entered at the Custom-house, both Inward and Outward, in which is expressed the Merchant Exporting or Importing: Quantity of Goods and Sorts, and whither Transported, or from whence.

Bill of Exchange ] Is a short Writing, ordering the Payment of a Sum of Money in one place, to any Person asfigned by the Remitter, in Confideration of the like Value paid the Drawer in ano-

ther place.

Bill of Lading.] An Instrument signed by the Master of a Ship, acknowledging the receipt of the Merchant's Goods, and obliging himself to deliwer the same in good Conditi- I rowing Money on a Ship, and on, at the place to which they are configned; of which there are usually 3. A 1st is given to steer of a Ship, to be paid with the Merchant to keep; a 2d Interest at 40 or 50 per Cent.

the Goods are configued; and a 2d is kept by the Master of the Ship. Vide Chap. 15.

Bills of Parcels.] An Account of the particular Sorts and Prizes of Goods bought, given by the Seller to the Buyer.

Bill of Sale.] See Chap. 15.

Billians. | Bimillions, or Bilmillions, or twice Millions, or (in Numeration) it is Midions' of Millions; shewing that the Word Million is twice mentioned. Some call it Dillions.

Bind.] (of Eels) 10 Strike,

each 25 Eels.

Bitt.] Of like Value with the Rial, but current at Berbadges for 7½ d. Sterling.

Boiseau.] Of Corn at Bourdeaux in France, 2 Bushel and near 1 a Peck; but at Rochell 2 + Pecks English Measure.

Book of Rates.] Is a small Book establish'd by Parliament. declaring at what Value Goods that pay Poundage (or Fo part of the Value) shall be reckoned, so that a 20th part of the Sum found in the Book of Rates, is taken for the Duty payable by the Acts of Tunnage and Poundage.

Bottomage or Bottomree. Borlending Money on Bottomree. is to lend Money to the Maar the Ship's Tafe Return, which if the Ship never do, the Lender never has his Money, and therefore is it the Interest is usually so great.

Box.] An uncertain Quantisy, as of Quickfilver 1 to 2 C.

Prunelioes 14th.

Rings for Keys, 2 Gross, &c.

Brace.] Vide Exchange of Coin, Ar. 4. of Sect 4. of Ch. 9.

Brait ] (Diamonds) Rough

Diamond.

Break Bulk ] Take out part of the Ship's Lading or Cargo-Brokage.] (or Brokerage) The Wages or Provision given

to them. Vid. Ch. 11. Sect. 2.

Brokers.] Buyers and Sellers of Goods for others, orc. vide 3 forts thereof, Chap. 11. in the 2d Sect.

Eundle.] Of Bass Ropes Harness Plates 10 Glovers Knives

Hambungh Yarn, 20 Skeans.
 Basket-Rods, 3 Foot about at the Band.

Bulrushes to of a Load.

Burden.] (of Gadfteal) 180 th. Burfe.] an Exchange or Place of meeting for Merchants to

discourse of their Trade.

Butlerage.] A small duty paid

for Wine imported by Unfree-

Butt.] Of Sack 2 Hogsheads. Currants—15 to 22 C.

Cade.] Of Red-herrings 500 Sprats—1000.

Cong or Kegg.] (of Sturgeon)
4 or 5 Gallons.

Candil ] An East India Weight, at Surat 540th, and at Mestupates 528 th 23 Averdupois.

Cane.] A Measure in Spain in Length 1 Yard Quarter and Half; but at Marfelia 2 Yards and 2 a Quarter English.

Canister.] of Te2, 75 to 1 C.

Weight.

Cantar.] at Tunu and Tripaly, about 114 th. at Acra in Turky 604; at Alepso 100 th.

Camaro.] Of Wine at Alicans and thereabout, 3 Gallons En-

glifb Wine Measure.

Cantone] a Measure in the Molucca Islands about 5 ! Pints English, 800 of which make a Quoian of Rice.

Capan.] In Sumatra in East-India about 3 pence Sterling. Capeck.] Muscovy Money, in Value 14 Penny Sterling, or to of a Greven. See Rouble.

Carage.] of Lime 64 Bushels.
Cargo.] Loading of a Ship; it is also a Weight in Spain, 12
Roves at Valencia, which is 347 to 1b Averdupois; at Alicant its but 280 lb. or 100000 Aspers in some Parts of Turky is a Cargo, as is 300 Weight at Marselia.

Caroteek] of Cloves 4 to 5 C. Weight.

Currans 5 to 9 C.

Mace about 3 C.

Nutmegs 6 to 7½ C. &c.

Cafe.]

120 Foot.

Of Recorders, 5 Recorders Cash ] Vide Peters.

Cask.] (An uncertain Quanenty as) of Sugar 8 to 11 Cil Weight.

Almonds about 2 C.

Caty.] A Weight in some Parts of East-India 2 Bancal or 1 th. 6 3 and 2 Drams English But the Money called a Catty in the Island Sumars, is 8 Tale or 61.8 s. Sterling.

Charter Party. An Instrument or Writing drawn between a Merchant and a Master of a Ship, containing the feveral Articles or Particulars of their Agreement. Vide Chap. 15th. the Form of one:

Cheft.] (an uncertain Quantity) as of Sugar 10 to 15 C. Weight.

Glass 2 to 2000 Foot. Castle Soap 2 to 3 C. Weight.

Indigo 14 to 2 C. 5 Score to the C. Oc.

Chevissance. | Composition between Bebtor and Creditor.

Chique Vide Exchange of Coin. ..

Christiana in Some Parts of Sweden, is about 16 d. Sterling Cliping | Coin in Sweden, va the 114 de Sterling; it is half, their Mark.

Cloffel Vide Tare. Close an Account. To close an Seal of England,

Case.] Of Normandy Glass Account, is to make an endor thur up an Account, when you intend to write no more thereto, and is deac-by Ballancing and drawing a Line, &c.

> Clough.] (or Draught) An Allowance of a Pound ar every 2 C. Weight for the turn of the Scale, that so the Commodity may hold out when retail'd.

Coard.] Of Wood, 4 Foot long, 4 Foot broad, 8 Foot deep.

Coban.] Gold Coin in Japan worth about 30 Shill. Sterling. Coca.] a Measure in Japan about an English Ale Pint.

Cockett. ] A Cuitom Warrant wrote on a small Sheet of Parchment, with the Seal of the Custom-house, given to a Merchant upon Entry of his Goods, certifying that the fame are Customed.

Colour Strangers Goods. Is when a Freeman or Denizen. permits a Foreigner to enter Goods at the Cultom house in his Name, whereby the Foreigner, who in many Cales should pay double Duty, by being emered in the Name of a Freeman, pays but fingle Duty, against which there are many severe Laws.

Colliba. A Money changer. Commission of Bankrupt.] A Commission under the great

Gg 2

to five or more Commissioners, to enquire into the Particulars of a Man's Circumstances that is failed or broke (as we call it). These Commissioners are to act according to certain Statutes made in that behalf; as 34 and 35 Hen. 8. c. 4. 13. Eliz. c. 7. 1. Jac. 1. c/15. 21. Jac. 1. c.19. 14. Car. 2. c. 24 &C. for Relief of Creditors.

Who may be Bankrupts.

All Persons (by the Statutes) above) using Trade by way of Bargain, Exchange, Barter, Chevislaunce, or otherwise in Gross or Retail, or seeking Trade, of living by buying or felling, Subject or Denizen, Scrivner, &c. that obtains Protection, unless by Parliament, that exhibited Bill against Creditor to take less than due, or to procure longer time of Payment than was given at the time of the original Contracts; or being indebted 100 h or more, shall not pay or compound for the same within 6. Months after due, and the Debtor be arrested for the same; or within 6 Months after an Original Writ fued out to recover the said Debt, and Notice thereof given to him, or left in Writing at his Dwelling-house or last place of abode; or being arrested for Debt, shall after his Arrest lie

upon that or any other Arrest or Detention in Prison for Debt. Or being arrested for 100 l. or more of just Debt, shall at any time after such Arrest escape out of Prison, exprocure his Enlargement by putting in common or hired Bail, shall be accounted and adjudged aBankrupt; except, as by Stat. 14. Car. 2. c. 24. such as have Stock in the East India, or Royal Fishery, or Guinea Companies, who shall not be esteemed Merchant or Trader.

Commissioners bow so act.

Commissioners in the Commission of Bankrupt may by the Majority within 6 Months convey all Lands, &c. to the use of the Creditors, unless Remainder be in the King by his Gist; and that they may sell what the Bankrupt possesseth as Ownet, the sold before, &c.

Commissioners (as aforesaid) may Authorize to break open House, Shop, Trunk, &c. and

leize.

Commissioners (as above) may examine Offenders on Interogatories, and also the Wife of the Bankrupt.

Commissioners may assign Debts due, or to be due, and properly alter, as if made to them.

Debt, shall after his Arrest lie Commissioners (as aforesaid) in Prison two Months or more may examine the Bankrupton Oath.

Oath, and on notice thrice at his House to be declared a Bankrupt, and on 5 Proclamations not appearing, to be apprehended.

Commissioners may proceed to Execution on Death, after Commission and before Distri-

bution.

Commissioners being fued may plead the General Issue, and give this Statute in Evidence.

Commissioners may commit fuch as refuse to answer fully.

Commissioners to allow Charges to Witnesses sent for.

Commissioners to declare (on request) the bestowing of Bankrupt's Money, &c.

Commissioners to see that Creditors be relieved pro Rata, without regard to greater or letter Security.

Commissions of Bankrupt to be fued forth within 5 Years after being a Bankrupt, and any Creditor, within 4 Months after the Commission, and until Distribution, may partake | paying thare of Charges.

Commission to a Factor

Chap. 11. Sect. 2.

Commerce. Trade of buying and felling.

Commutation. Vide Barter.

Company. ] (of Merchants) are either, 1. Companies in Joint-Stocks, as the Morea Company, East-India Company, and Green.

land Company; or, 2. Regulated Companies, as the Hamborough, Turky, Eastland and

Muscovy Companies.

Composition.] By Composition in the way of Trade is meant, when a Debtor cannot pay his whole Debt, he agrees. with the Person to whom he oweth the Money, to take part in lieu of the whole Debt. for which part he obtaineth a Receipt in full, as for the whole Debt; and this Money is faid to be paid by Compofition.

Cono. (or Cogno) Wine Measure at Florence, being 10. Barrels of 117 Gallons per Barrel.

Confign Goods.] Is to present. deliver, or affign over; efpecially Goods are faid to be configned to a Factor, when they are sent him by his Employer to be fold, &c. or when a Factor fendeth Goods to his Employer, the Goods are faid to be configued to that Employer.

Contraband Goods.] Are fuch as are prohibited Importation, as Buttons, Thrown-Silk,

Sword-Blades, &c.

Copes-Mate.] A. Partner in-Merchandizing.

Copstake. At Bremen in Germany about 127d. Sterling.

Cordage.] The Tackle of a Ship.

· Corre-

Men hold a mutual Familiarity or Commerce by Letters, Invoyces, &c. they are Correfpondents.

Cosbeg.] Money in Persia & of

a Bess.

Covado.] a Measure for Cloth in the Persian Gulf, the long one about 38 Inches, but the short one there and at Lisbon in Portugal, is equal to the Pico at Aleppo, or 27 Inches, as is the short Cavado at Surat, by which they measure Silks and Callicoes; but the Cavado there is 35 Inches, used in measuring Woollen Cloth.

Condry.] 10 of a Mass in Ja-

Counterpoize.] To weigh one

against another.

Cracke.] A small piece of Money at Florence and Leghorn in Baly 3 Farthings Sterling, or the Eighth of a Julio, or 5 Quadrins.

Cranage.] Money paid for the Use of a Crane, by which bulky Goods are drawn up to Shore, out of the Ship, Hoy,

Creditor.] One that gives Credit, or lendeth to another.

Creek.] or Gulf. A crooked Shoar, where two Corners of Land extend themselves into the Sea at some small distance, between which a Vessel may sail.

Crown.] currant, &c. see Exchange.

Crusado.] In Germany, 6 s. 2 d. 1 ½ qr. in Portugal 2 s. 10 d. and in Ireland 2 s. 8 d. Sterling.

Crusser.] A small Piece of German Coin, 60 whereof make a Florin, so its Value is 27 Famhings Sterling.

Custom! Is a Duty paid for Goods exported by the Subject, to Kings or Princes for protecting them in their Trade

from Enemies, &c.

Cubit.] 18 Inches.

Cruzers.] Ships that sail upon the Ocean, with design to fight and take Enemies Ships.

Debenture.] They are owing; or an Arrear; or (as most commonly understood in Trade) is a Writing certifying Money to be due from the King, &c. to any one for Custom; or payable for foreign Goods exported by Certificate.

The Form of a Debenture may be feen in my Comes Com-

mercii, Chap. 4.

Debtor.] One that is indebted to another.

Demurrage.] An Allowance to the Master of a Ship by the Merchants, for staying in a Port longer than the time prefix'd for his Departure. Vile Freight of Ships, Chap. 11.

Denier.] In France 10 of a Farring, and in Germany 1 qe.

Diary.]

Didy.] (or Journal) a Daybook, or an Account of evety Days proceedings in Trade.

Dicker.] (Of Leather or Knives) 10; of Necklaces 10 Bundles; each Bundle ro Necklaces.

Discount.] Set off, deduct or in confideration prompt payment, which is u fually what the Interest comes to: as if I owe 100 l. and by contract am to pay at the end of 6 Months, if I pay the same prefently, I am to have a Sum allowed me which bears such Proportion to the Sum given, as the Rate does to the Principal and Rata, if the Discount be for a Year, and in proportion to the time, if for less than a Year.—See my Index to In-

terest, page 95. See Rebate.

Disembarque. Take Goods to Land out of a Ship or Vef

fel.

Distrain.] Take away Goods for the payment of a Debt.

Ditto.] The same, or the faid.

Dividend.] (or Divident.) In: Arithmetick, the Number to be divided: But of Company to make a Dividend, is to affign how much of the Profits; gained by a Company's Trading, is proportioned or justly due to each Share contained in the whole Joint-Rock; so ] that each Member, by know- | Coffee, Tea, Tamerins, An-

ing how many Shares he has therein, may know what he is to receive of the whole Gain.

Dock ] A Place where Ships are built, refitted, or laid up,

Doight.] The 4th Part of a Stiver in Holland.

Dollar.] See Sect. 4 of Chap. 9. for the 4 Spanish ones or Pieces of Eight. The Rix Dollar at Hamburgh about 4 s. 6 d. the Imperial and Philip Dollars about 4 s. 9} d. That at Brunswick is 4s. 2d. 0fgr. And that at Copenhagen 48 Stivers of 4s. 51d. The Lyon Dollar is 5 Shillings Sterling.

Dovame.] The Custom-house

at Lyons.

Dram.] A Weight for fine Goods in the Persian Gulf about Ormus, 6 whereof make an Ounce Averdupois, 8 English Drams in an Ounce Troy, and 16 the Ounce Averdupois.

Drapery.] Cloath-market, or that refembling the Cloathing

of a Picture.

Draught.] (of a Ship) the Number of Feet under Water when Laden; also an Allowance in Weighing. Vid Clough.

Drugs.] Simples (of which the most part are dry) some whereof are medicinal, as Jesuits Bark, Gallingal, Allom, Rubard, Cream of Tartar, Oc. Others are Grocery Drugs, as nifeeds,

niseeds; Cocoa Nuts, Ginger, by whom, as used by Bankers, &c. almost innumerable.

Dina.] An East-India Coina bout 30 Shillings Sterling.

Ducat ] The Hungarian or Potander about 4 s. 8 d. That of Rome (called the Gold Crown) 5.s. 6d. and for those of Venice. See Sect. 2. Chap. 9.

Ducatoon.] See Sect. 4. Ch. 9. Duty or Additional Duty.] Money paid for Custom of Goods, &c. to be applyed to the King's Use, as that of Tunnage, Poundage, &c. whether the same is Exported or Imported.

Effects.] Merchant's Goods or Concerns.

Ell.] Long Measure in several Countries; see Sect. 4. of

Chap. 9.

Embargo. Is said to be laid on Shipping, when, by Order of the Government, none may go out of any Port of a Nation; and sometimes that none may either come in nor go out.

Empory. An Exchange. Enchiridion. a Pocket-Book or Vade mecum.

Endorse.] To write on the backfide of any Instrument or Writing, something relating to the Matter within; as to

Endorse ] (a Note) is to write on the backfide what part thereof is paid, also when and | Fees or Reward.

O.C.

Endorse.] (a Bill of Exchange) To order another to Receive the Content of a Bill that is payable to me or my Order, which is done by writing my Name on the Backfide; as if A draws a Bill of 100l payable to B. or Order, which is accepted upon Prefentation: but before the Bill is payable, B has Occasion to pay 100 k to D, so he writes his Name on the Back, and delivers to (D) the Bill; and D having occasion to pay to E 100 l writes his Name on the Backfide, and delivers the Bill to E. &c. So all they that have wrote their Names on the Backfide are Endorfers; and he that has the Bill last, if the Acceptor will not pay it, may profecute both all the Endorsers; and the Drawer and Accepter, or any of them by the Custom of Merchants.

Enfranchise.] Encorporate into a Body or Society, as all our Corporations are.

Enbance.] To raise the Price

of any thing.

Epha.] A Jewish Measure of four Gallons and half.

Escambia.] A License to make over a Bill of Exchange to one beyond Sea.

Exaction.] Taking unlawful

Exchangers.

turn Money beyond Sea.

Exchange Brokers.] Men that tell how the Exchange goes, and find those that will Exchange, Vide Factors, Chap. II. 5. 2.

Export.] To fend any thing out of a Port to Sea, as Goods in a Ship, &c.

Extertion. Taking more from another for Usury, &c. than is justly or legally due.

Fair.] A Merchant's Agent, Oc. Vide Chap. 11. 9. 2.

Factorage.] The Wages that a Factor has. Vide Chap. 11.

Fagget. (of Steel) 120 tb

Weight.

Fangot.] An uncertain Quantity, as of Raw Silk, I to 24 C. Grogram and Mohair Yarn 1 C to 2½ C.

. Fanam. A Piece of Coin at Messapatan in India, value 6 d 13 gr. 15 of which make a Pa-

god of Gold.

Fat.] An uncertain quantity, as of Yarn 210 to 221 Bundles; Unbound Books 1 a Maund; Wire 20 C. to 25 C. Weight; Isinglass 34 C. to 4 C. Weight.

Florin. In Germany 3s. 4d. in Sicily 2 s. 6 d. in Spain 4 s. 4.d. in Holland and Poland 2 s and in Savoy 31 pence Sterling, of Gold 5 s. Accounts are kept | Goods are wrapped in.

Exchangers.] Men that re- in some Parts of Garmony in Florins, Batches and Crutsars, and in others in Florins, Souls and Deniers, Values of which are found under their respedive Denominations.

Fodder.] of Lead, 191 C. Folio.] A Leaf, or 2 Pages of the Ledger, &c.

Fond or Fund. A Foundation or Stock in Money, or Moneyworth.

Foot.] Of Amsterdam and Antwerp 112, Paris 127, Bream. 112, Franckfort and Cologue 112, Spain 12, Rome 117, Venice 1376 Dantzick 113, Copenhagen Foota is 113 Inches English.

Forestall.] To Buy Goods before they come to Market, with Intent to advance their

Price.

Foundered.] 'A Ship is for where is filled with Water by a Storm.

Fraight.] or Freight, is the Merchandize a Ship carries; and sometimes the Money paid for fuch Carriage is called Freight.

Frails. Of Raisins about 75:

Pounds.

Franchise. Freedom or Pri-'vilege.

Frift.] To fell Goods at time, or upon truit.

Gabaridge.] That which Irish

Gabelt. Tribute or Custom paid to Princes.

Geffe.] An Iron Hook to pull

great Fishes into a Ship.

Gaga.] A Measure in Japan containing 100 Gantas, each Ganta being three Ale Pints is 474 Ale Gallons, by which Rice and other Grain are Meafured.

Gallon.] (Irish) 224 solid Inches for Wine or Brandy, Engiifh 231, and of Ale 282, Guernsey 252 Inches.

Garble. The Duft and Drofs that is severed from Spi-

₩5, O°C.

Garbling.] Picking the worst from the best of any. Commodity.

Gare.]- Very course Wool.

Gaset.] Money of Zant (a Curran Island in the Mediterranean) in Value 27. Farthings, 80 of which make a Dollar or £5. 6 th

Goad. An Ell English, by which Welfe Friez is measur'd.

Greven.] A Coin in Muscour 12d. Sterling, 10 makes their Rubble.

Gross.] Small Money in Poland, Value 37 Farthings, 30 whereof makes their Guilder, or 2 s. Sterling; also a Gross of any thing is 12 Dozen.

the Goods on Merchandize, Dust and Dross mixt there- glish. with; and of the Bag, Cheft-1

Frail, or other thing in which they are contained, out of which Gross Weight Allowance is made for Tare and Trett.

Guild. A Company combined with leave of their Prince.

Guild-Merchant. A Privilege whereby Merchants may hold Pleas of Land within themfelves.

Guilder.] The common Silver one in Germany is = 2 s. 8 d. 2. that of Holland or Poland 2 s. that of Nuremburgh 7 s. 1 d. the Golden one in some parts of Germany is 4s. 9d. 1 gr. Sterl. of Portugal 5 s. Accounts are kept in Holland in Gilders and Stivers, and in Flanders in Pounds, Shillings and Pence of Gross.

#### H

Hair's Breadth. Is accounted among the Four the 48th part of an Inch.

Hallage.] Toll or Duty paid tor any Commodity brought to be vended in a Hall.

Hand.] (In the heighth of a

Horse) four Inches.

Hand's-Breadth.]three Inches. Hanega.] A Corn Measure at Bilboa in Spain 12 Bushel En-Gross Weight.] the Weight of glish; so that five Hanega's make a Quarter or eight Bushels, EnHanock] A Corn Measure at Maliga in Spain, containing (unheaped) is 29, or heaped 144 fb Averdupois.

Harping Irons.] Iron Instruments to strike Whales and o-

cher great Fishes withal.

Harpiniers.] those that strike
Fish with the Harping-Iron.

Hin.] Jewisi Moasare of about three Quarts.

Hogshead.] 63 Gallons, Vide Chap. 1.

I.

fam. (of Oyl, Olives) 18 to 26 Gall. Green Ginger about 100 pounds Weight.

Immunity.] Privilege or Pree-

Importuous] without Port or Haven.

Import Goods.] to bring them into a Port.

Impaged (of Goods) the Tax or Custom paid for Merchandize Imported.

Inch of Candle.] Goods are fold by Inch of Candle, when a Merchant or Company of Merchants (as the East-India Company, &c.) having a Cargo of Foreign Goods arrived, are minded to make a speedy Sale thereof. In this Case Notice is usually given upon the Exchange by Writing, and elsewhere, when the Sale thereof begins; against which

time the Goods are divided in to feveral Parcels called Lors. and Papers Printed of the Quantity of each and of the Conditions of Sale, as that none shall bid less than a certain Sum, more than another has bid before,  $\phi_c$  during which time of bidding, a fmall Piece (about an Inch of Wax-Candle is burning, and the last bidder when the Candle goes out has the Lot or Parcel exposed to Sale. And if any Difference arile, as it often happens in a good Lot, that 4 or f more bid together, in this Case the Lot is put up again till the true Buyer can be difcovered in the Judgment of Standers-By, appointed for that purpose, which Buyer is bound to stand to the Bargain and to take the Lot, whether good or bad, at the Rate he bought it, by being the last Bidder.

Indorsa.] Vide Endorsa.

Ingenio.] The Sugar-House at
Barbadoes.

Ingett.] (of Silver or Gold) an uncertain Quantity of Bulfion or melted Gold or Silver.

Inland Bills.] Bills payable in the same Land in which they are drawn.

Inland Town.] One that stands far from a Port, and to which no Vessel can Sail.

, Inland Trade.] Trade that is managed wholly in one Coun-

try.

Insurer.] (of Ships, Cargo, &c.) One who for a Sum of Money paid in hand to him by a Merchant, obliges himself to make good such Ship, &c. so far as is the Value of that for which he hath received a Pramium, in Case of Loss by Storm, Pyrates, &c. as mentioned in the Policy. Ch. 15.

Interlopers.] Those that hinder or intercept the Trade of a Company legally established, by the Trading in the same

way.

Inventory] A Catalogue, or a particular Estimation of

·Goods, Occ.

Goods, Custom, Provision, Charges, &c. sent from a Person to his Correspondent.

Incopyce Tare. The Tare (or Weight of the Cask, Bagg, &c. in which Goods are put) mentioned in the Invoyce or

Factory.

Journal JA Book containing a daily Account of any Business, or a Merchant's Journal, is a Transcript of the Wastebook, which in this Book is made Debtor. Vide Chap. 9.

Julio.] Money at Leghorn, and Florence in Italy, Six-pence

Sterling, or 8 Cratches.

K

Keel.] The lowest Timber,

or Bottom of a Ship.

Key.] A Place to Land or Ship off Goods at, the Number of which are settled by the Parliament, or appointed by the King: Those at prefent belonging to the Port of London, are Galley Key, Brewers Key, Chesters Key, Wool-Dock, Custom-House Key, (except the Stone Stairs on the West Side thereof) Porters Key, Bear Key, Sabs Dock (excluding the Stairs there), Wiggins Key, Youngs Key, Ralphs Key, Dice Key (except the Stairs there) Smarts Key, Somers Key, (except the Stairs there) Lyon Key, Hammone Key, Botolph Wharf, Gaunts Rey (except the Stairs on the East Side), Cocks Key, and Fresh Wharf, besides other Places for landing Fish. Salt, and Provision; as Billing gate, Bridge-House in Southwark. &c.

Killow.] a Corn Measure in Turkey 3%, Pecks English, and 5 Zant Killows is fix English. Bushels.

Kintall.] Of Fish 100 th Weight. Vide Exchange of Coin, of the Par of Exchange, Gen. Head 2. vide Quintal.

Knitlidge.] The Balast of a

Ship.

Larbeard.] Port. The left side of a Ship.

Lastage.] The Ballast of a

Ship.

6

Last.] Of Ashes for Soap, Cod Fish, White 12 Bar-Herrings, Meal, Pitch rels. and Tarr.

Of Red Herrings = 20 Cades; Stock-fish=1000, of Dogstones = 3 pair, Flax or Feathers 17 C. of Gunpowder 24 Barrels (or 2400 pound weight:) Of Leather 20 Dicker, of Hydes = 12 Dozen, of Corn or Rape Seed = 10 Quarters, and of Wool 12 Sacks.

Leakage.] An Allowance to the: Merchant (for Liquids) of r2 per Cent. And to Brewers 3 in 23 Barrels of Beer, and 2 in 22 Barrels of Ale.

Lasky.] A Vessel'is so, when it lets out any of the Liquor therein contained; or a Ship is so when it lets Water comein.

Ledger.] A Book of Accounts, wherein every Man's Account, and also that of every fort of Goods Bought and Sold by a Merchant are placed each by themselves. See Chap. 10. S. 1. and 6.

from one Correspondent to another, advising him what Bills he has drawn on him, &c. Vide The Duty of a Factor, Ch. 11.

Letter of Credit.] Is a Letter fo called from the Inhabitants from one Correspondent to a in Lombardy in Italy, who are

nother, to request his Crediting the Bearer thereof with a certain Sum of Money therein mentioned: In which Letter it is necessary some special Token should be mentioned, the better thereby to secure both sides from Frauds that might be practised in procuring Sham-Letters of Credit. Vide Ch. 16.

Letter of Licensa. A Letter of License is an Instrument or Writing granted to a Man that has fail'd or Broke, Sealed and Signed by his Creditors, which Letter does usually give a longer time for payment, so that the Debtor having this Letter of Licence, can go about his Business without fearing an Arrest. See the Form of one, Chap. 15.

Lispound a Weight at Hamburgh, 15 of their Pounds (or their Kintle) and is 16 fb 43 and 12 Drams Averdupois; and at Copenhagen in Denmark it is one 20th of their Shippound.

Livre.] In France 18 d. in Spain 5 s. at Legborn and Florence 9 d. Gema 16 d. Sterling; A Livre is 20 Sous (or Soldo's in Spain) each Sous 12 Deniers; in which Denominations Accounts are kept in the most noted Places for Traffickall over France, Spain and Italy.....

Loan.] Interest of Money.

Lombard.] a Bank for Usury,
so called from the Inhabitants
in Lombardy in Italy, who are

much

much concerned in Usury.

Loop.] of Corn, at Riga two Bushels, and in some Places 4

Pecks and 3.

Loot.] a Weight of some Parts of Germany and France, half their Ounce, or the it of a Pound; fo the Lost (for Example) at Spires, is very near 9 Drams Averdupois.

Lyon Dollar. Eighty Aspers os 5 s. Sterling at Aleppo in Tur ky, where Accounts are kept

in Dollars and Alpers.

#### **M**.

Maggie.] of Corn in Italy 24 Stare, or 17. Bushels English Corn Measure.

Mamooda. | Coin at Meslapatan in East India, value near our Shilling.

Mamothy.] At Ormous in the Gulf of Persia, value 8 d. Ster-

ling.

Manch.] Of Silver is 60 Shekels, or 7 l. 10 s. oo d; of Gold 100 Shekels, OF 75 %

Sterling.

Manifest. A Manifest is a Transcript of a Master of a Ship's Cargo, shewing what is due to him for Freight from each Person to whom the Goods in his Ship belong.

Manual Goods.] Those whereof prefent Profit may be made.

Manufacture.] A Commodity produc'd by the Work of the Weight.

Hand, as Cloth, Bays, Serge. Hars, &c. but Wool is no Ma. nufacture, because Nature produceth it, but what soever Commodities are made by Art, of things naturally produc'd, are properly called Manufactures.

Maritime.] Belonging to the

Sea.

Mark.] Money, in England 12s. 4d. in some Parts of Germany 16 Stivers, or 2s. Sterling; in Denmark it is 16 Shillings (where Accounts are kept in Marks and Shillings) or 127d Sterling; but in Sweden the Mark 227 d. Sterling.

Mark of Goods.] A distinguishing Characteristick, whereby every Merchant and Trader knows his own Goods and the Prices thereof, which is sometimes by other Characters, and particularly the Mark apon the Bales, Chests, Bundles, &c. of Partners is for the most part as in the Bill of Lading, Chap. 17.

Mark Laps.] In some Parts of Poland 2 s. 93 d. Sterling.

Margross.] A German Coin. Value z & rå Farth. Sterling.

Mass. A Silk Weight in India A of a Pyce; also a Coin in Japan 10 Coudrys, or 54 d. Sterling. But in the Island Sumatra the Muss is 4 Capans, or r Shilling Sterling.

Maft.] (of Amber 22 Pound

Meand.7

is 8 Bates, each 1000 Pound Weight, or 2 Fats.

Maund shaw. A Weight at Cameus in the Gulf of Persia 12. Pounds Averdupois: but the

Mound Touris. 128 din weighing Silk there, is but 61th. Averdupois; at Surat there is one Maund of 32 tb. 53. 7 Dr. the other of 27 to Averdupois; and the Maund at Messuparan is but 26 th 14 3 8 Dr. of our common Weight.

Mease. Tive Hundred Her-

rings.

Measure. Of Corn in Sweden 3 Bushels, and near a half, the fame with a Barrel in Denmark. In some parts of England it is 1 Bushel.

Medin.] In Egypt 2 Aspers (in Medins and Aspers they keep their Accounts at Cairo and Alexandria); at Aleppo it is 1 d. Sterling; and of Corn in Cyprus it is 2 Bushels English.

Messe. A Piece of Money Bast India, 1500 Petties, or

15 d. Sterling.

Metre.] Of Wine in Turky 2

Quarts 14 Pints.

Mettadel.] Of Wine at Florence and Legborn 1 Quart and near half a Pint, 2 whereof make a Flask.

Milree, by some Milrea.] Of -Wine and Oyl in France near the Mediterramean, 4 Scandals or 17 Gallons English Wine 1

- Maund.] (of unbound Books | Measure. See Exchange of Coin foregoing.

Missengross.] (or Silver Gross)

a Germon Money value 2d. + grs. Mittigal ] A Weight for Silk at Surat, 2. Dr. and about 4.

Moiety.] One Half of arry

thing.

Monopoly. The buying of any Commodity up, so that none can fell or gain by it but one Person or Pareners in Company.

Mortgage.] A Pawn of Lands. Goods, &c. as a Credit or Depositum whereon to borrow Money; which Goods, &c. to be the Lenders, if the Money is not paid back at the time prefixed.

Mount.] (of Plaister of Paris)

2000 Pound Weight.

Mulcts Fines which Company have Power lo lay on Ships or Goods belonging to their Members, to raise Money for the Use of such Company for Maintenance of Consuls, or to make Presents to Foreign Princes, &c.

Murrage.] Toll taken of every laden Cart or Horse, toward the Repair of the Walls

of a Town or City.

Muyd.] Of Corn, 24 Minots or 8 Quarters and 1 English.

#### N

Napery.] Linen Cloth or Table Cloth. Na∸ Sea.

Naufrage ] Shipwreck.

Navigable.] Sailable, or which

may be failed in.

Navigator. One that understandsNavigation; or one that Imports Goods in a Foreign Bottom.

Navigation. The Art of Sailing, as also the manner of Trading by Sea, called Mer-

chandizing. Naulage. The Freight or Sum paid for carrying Goods

by Sea.

Nevy. A Fleet of Ships. . Neat-Weight The Weight of the pure Commodity alone, without the Cask, Bag, &c. And (in Commodities that have any) when the Dust, Drofs, &c. is taken out by Garbling, &c.

Negotious.] Full of Business. Nest. (of Chests of Coffers)

Notary-Publick. A kind of Scrivener, who publickly takes Notes of Contracts, Draughts, Protests of Foreign Bills, &c.

Note for Money. A short writing, whereby one Man promiseth to pay another a Sum of Money under his Hand: Vide Chap. 15.

Noteing a Foreign Bill.] Publick Notary's going to be a Witness, to take Notice that

Naval. Belonging to the a Merchant will not accept or pay it.

Obligee.] He to whom a Bond is made.

Obligor.] He that enters into

. Oke.] A Turkish Weight: See Turky Weight in Exchange of Coin; but the Oke of Flesh is 23 lb.

Okham.] Tow or Flax to drive into the Seams of a Ship.

Omer.] A Jewish Measure of

21 Pints.

. Orcio] An Oyl Measure, at and about Florence, 8 Gallons and I Quart English Wine Meafure.

Ork.] A Butt for Figgs or Wine.

Orgal.] The Lees of Wine dryed, used by Dyers to make Cloth take Colour.

Orlap.] Any Deck of a Ship

but the first.

Overset.] When the Ship is overturned.

Ouster le Mer.] An excuse sor not appearing in Court by being beyond Sea, &c. See 4 Hen. 7.

Owlers.] They that carry Sheeps-wooll or any prohibited Goods in the Night to the Sea side in order to Ship off contrary to Law.

Pace. Five Foot.

Pack of Wooll.] 17 Stone and 2 pounds, or 240 lb Weight.

Packer. He that makes up Barrels of Herrings, &c. See -15. Car. 2.

Pagod.] A Piece of Indian Gold worth about 8. Sterling, At is 15 Fanams.

Palingman ] A Merchant Denizen born.

In some parts of Palme. Spain 7. Inches, at Genoa 9 Inches and near & English.

Paneart.] A Paper of the Rates and Customs due to the French King.

Par of Exchange. Vide Ex-

change of Coin.

Paraw. A Coin at Confronti - stople is about 11 Farthing Engli∫b.

Pariation.] Evenuess of Ac-COUNTS.

Passage. A Writ for the Keepers of a Port to grant Passage over Sea.

Patent ] A Dutch Stiver 5 of which makes 6 d Sterling.

Pattacoon.] A Spanish piece of Money in Flanders, about 4 s. & d. Sterling.

Paist. See Bothe.

Fay In Guinea equal to an l Alper in Turky, or a Farthings 1 English.

lend Money upon any fort of Goods or Commodity.

Peculi ] At Japan, Java, &c. in East India, is 100 Catty, or 122 th Averdupois.

Pesage.] Custom for Weight ing.

Pesterable Wares ] Those that are troublesome and take much room in a Ship.

Peters.] Lead Money in East's India, 25 of which makes \$ Farthing English: See Messe and Cash.

Petty Talley.] A Competency of Provision for a Ship.

Piaster. J. Something, better than a piece of eight Piller.

Piccage.] Money paid at Fairs or Marts for breaking the Ground to let up Booths.

Pico.] The long one in Barbary and Aleppo 27 Inches. whereby Woollen Cloth and Silk are measured, that by which Linnen is measured is but 26 Inches, the Egyptian Pico for Cloth is 25% Inches, and that for Silks and Stuffs is 227 Inches English.

Piece of Eight.] 4 forts: See Par of Exchange. Sect. 4. of Chap: 9. or the Index.

Pocket of Wooll.] Part of a Pack, about half.

Policy of Insurance. An Instrument or Writing given by Infurors of Ships, Goods, Houses, oc. to Merchants, oc. to Pawn Brokers. They that joblige themselves to pay the

Sum

Sum inferred in Cafe of Lose! | Commodities.

Vide Chap. 15.

Pood ] A Weight in Mascowy 27th; (3: c dr. of Averdapois, whereby their Rich Furrs and other fine Goods are weigh'd 10 of which make a Bercover. 'Poop.] The uppermost part a

Stern, a Ship's Hull.

Portegue.] Money of Hamburgb, in value 21. 125.9d. 2. Sterling.

Portgreve] The Governour

of a Port Town.

Port Sale. A Publick Sale of things to them that bid most.

Post an Account. Is to put an Account forward from one Book to another, as to Tranicribe what is written in the Waste-book, in the Journal, &c. Vide Chap. 10. Sect. 8.

Pet or Pel In Guernsey and Fersey half the Gallon, or 126 cubical or folid Inches.

Poundage.] A Duty granted the King of England of 12 d. for every 20 s. value of all Goods Exported or Imported, except such as pay Tunnage, and Bullion, and Diamonds, and a few others.

Pre-emption ] The first buy-

ing of any Thing.

or the Pramium J.A. Reward, or the Money given for Infuring Ships, Goods, Houses, &c.

Prise Currant. ] A Weekly Account publish'd in Landon, of the Current Value of most lions of Millians.

Primage.] A finall but cuftomary Allowance to the Master of a Ship for his Sailors, paid at the Lading of a Ship.

Prinage Wine, &c. ] Such as is taken from Enemies by way of

Prize.

Prize Office.] An Office appointed for the Sale of Ships, erc. taken Prize.

Probibited Goods. Such. Goods as are not to be Experted or

Imported.

Prompt payment.] Present Pay-

ment.

Protest of a Bill of Exchange See Chap. 11. Sect. 1. and the Form of one, Chap. 14.

Provision ] The Wages due to a Factor: See Ch. 11. Sect. 2.

Publick Notary. ] See Noturay Publick.

Puncheon. Of Wine = 84 Gallons: of Pruons 10 or 12 hundred Weight.

Purse.] Of Money in Turky. 500 Dollars or 1251, Sterling.

Pyce | An East India Coin being st part of a Rupee, or lof an Ana; but in Weight it is 112 Drams,

Quadrillions.] Is when the Word Millions & express d 4 times in Reading a Number, as Millions of Millions of Mil-

Quadrin ]

? Spedies.] Small beauty in Italy, 4 of a Crache and is in Value 4 of a Farthing.

Destroy.] Of Corn in Spain, next 139 pounds Averdupois but in England 8 Bushels.

Quarter Deck. ] Over the Steerage as far as the Captain's Eabin.

Quarter Wind.] When all the

Sails may draw together.

Quincal or Kintle.] 100 fb in most Places, as of Fish at New-foundland and in the Streights; but the Kintal at Leghorn is but 7y fb Averdupois, at Hamburgh there is one of 120 fb, another of 200 of their Pounds, which Pound is 700 of a Pound English; at Bilbea for Iron the Kintle is 158 fb English, and for other Goods 112 fb Averdupois, for the Turkish Kintle. See Sect. 4. Chap. 9.

R

Queian.] See Canton.

Rack Fintage.] A fecond Voyage of our Merchants into France for Rack Wines.

Rack Wines: Wine cleanfed and drawn from the Lees.

Ration Of Corn in fome parts of France 4 Bushels 12 Pecks Biglish; but it is properly no more than a Day's Allowance of Bread or Forgage for Man or House.

Acam J Of Paper, 20 Quires

Interest comes to, in consideration of prompt Payment, and in Spain, verdupois els.

Over the Captain's count, and also my Index to Interest, p. 95.

Ree.] A. Portugal Coin: See

the Table in Exchange.

Reed ] A Fewish Measure, 3

Yards and 3 Inches.

Regrator. One that buyeth and felleth again in the fame. Market or within four Miles thereof.

Remancipate.] To fell or return a Commodity to him that first fold it.

Rialto.] A Marble Bridge at Venice where the Merchants meet.

Rigging.] The Ropes, &c. belonging to the Yard and Masts of a Ship.

Rix Dollars and Stivers the Danes keep Accounts.

Roll.] (Of Parchment) 60 Skins.

Rome's Crown I (call'd the Gold Crown)  $\varsigma$  s. 6 d. that at Florence,  $\varsigma$  s. 2 d. that at Sicil),  $\varsigma$  s. 6. d. and for those at Venice. See Sect. 4. Chap. 9.

Ratello.] A Twisife Weight See Exchange, the Equation of Weight. Chap. 9. Sect. 4.

Rove.] A Weight in Spain but about Leghorn it is just 8 very near 29 th Averdupois by Bushelm bur Quarter. very near 29 th Averdupois by which they Weigh Spanish Wooll at and about Valentia, but at Alicant the Rovet is just 28 lb. There is also a Rove at Malaga for Wine Measure, which is 4 Gallons English.

Rouble.] Money in Muscowy 10 s. Sterling; in Roubles and Pence the English there keep their Accounts, and the Dutch there keep there Accounts in Roubles, Grevens and Pence, 20 d. to the Greven, and 10 Greven to the Rouble. See Altien and Capeck.

Rundlett.]An uncertainQuantity of Liquids from 3 to 20

Gallons.

Rupee.] An East India Coin worth 2 s. 3 d. Sterling, To of which is an Ana, and tof an Ana is 1 Pyce, in which Coin Accounts are kept at Surat in the East Indies, and some parts of the Bay; but in others in Pagods and Fanams.

Ryall.] A Spanish piece of Money about 61d. Sterling.

Sack. Of Cotton Wooll 12 C. to 4 C. of Sheeps Wooll 26 Stone of 14 to the Stone, but I in Scotland 24 Stone of 16 lb each Stone.

Salmo. A Corn Measure in

Salvago An Allowance made both by the Statute and Civil Laws to fuch as fave Ships or Goods from Danger of Seas, Enemies, &c. Seea late Statute made 4 and 5 W.M.c.25.

Sarplier.] A piece of Canvas

to wrap Wares in.

Scale. (in Trade) that Town where Goods are Landed, in order to be carried to another. is the Scale to that other, and the like of Exchange.

Scandell.] Of Oyle at Provence, Marseilles, and thereabout in France, 4 Gallons and

I Quart English.

Scavage ] A Duty formerly laid on Merchants Strangers. Goods imported or offered to Sale.

Scudi.] In some parts of Turky 64 Aspers, or 4 s. Sterling, but at Legborn and Florence, in Italy the Sudi is 7. Livers, each 9 d. or 5 s. 7 d. Sterling.

Seem.] Of Glass, 24 Stone each , Pounds Weight; of

Malt 8 Bushels.

Sear.] A Silk Weight at Surat 111. Ounces, but at Messepatan 10 Pounds Averdupois.

Seignorage. | An Allowance to the King or Prince for Goldane Silver brought in the Mass to be Coined.

Seisure.] To make Seisure is Spain about 8. Bushels English, I to Seise prohibited Goods, &c.

See

Swid Car. 2. Ch. ii. Rev. 6. [ Sort.] Of Ballances is 4 Do-W. M. c. 1.

Semibole.] Half a Tun of Wine or r Pipe.

Seraph.] A Turkish Gold Coin |

about 5 s Sterling.

Seron.] Of Barillia 2 C. Almonds, z C. Anniseeds, 3 to 4C. and Caftle Soap 2! C to 14 C. « Seffing.] A piece of German finall Money Value ; of a penmy Sterling.

Shapes, At Ormus in the Perfian Gulph 4d. Sterling.

Shepel. A Corn Measure containing in Holland 2 Pecks; at Lubeck 21 Pecks, and at Hambro i Bushel English.

Shippound At Antwerp 2121b but at Copinhagen about 22015 at Norway, Dantzick and Riga it is 293 th b. Averdupois, uled for weighing of Flax, Hemp, and other Gross Goods in the Baltick Sea or Eastland Trade.

Shock. (Of Soap boxes, Canes, Woods, Trays, &c.) 60.

Skilling.] (or Shilling) in the Natherlands 7; pence in Denmark ? of a Penny Sterling, at Lubeck 14 pence. Li A var

- Shipper.] A Seaman.

Smuglers.] those that conceal prohibited Goods, againit whom there are many levere Statutos, as 14 Car. 2. Ch. 11. Rev. 6. W. M. C. 1. &c.

Sombre. At Malaga in Spain, a Measure for Oyl and Wine, 2 Quarts English. ( . '18 2)'...: A Subject to perish.

zen.

Sound.] To found (at Sea) is to make Tryal how many Fathom the Sea is in Depth, which is done by a founding Line, (which is 20 to 200 Foot long marked at 3, 10 and 15 Foot with Leather, and 5 with white' and 7 with red Rags) and a founding Lead which is about. 7 Pound Weight.

Sous.] (Or Soo) in France 22 tarthings, in Germany 2d. Sterling, 20 Sow is a Liver in France, or 1 Florin in Germany

respectively.

Span.] 9 Inches. ... Spitsgross. In Germany 2 Marygrossor 2d. 41 farching Sterl.

Stack ] (Of Wood) 3 Foor long, 3 Foot broad, and 12 Foot high.

Stand.] Of Burgundy Pitch) 125 C. to 3 C. Weight

Staple, A. Publick Mart by 27 Edwi. 3. Or lettled and appointed to be kept constantly at York, Lincoln, Newcastle upon Tine, Norwich, Westminster, Canterhary, Chichester, Winchester, Exeter and Briftol, to which. places Merchants and Traders. were to carry to fell there.

Staple Goods.] Wooll, Leather, Lead and Wool-fells; tho'now by Staple Goods is generally meant, any good vendible Commodity not easily

Stare.

gborn 217 Pecks; but at Venice 21 Bushels.

Star board. The right fide of a Ship.

Staticks ] The Science of Weights and Measures.

. Statute Merchant. [Or Statute.] Staple) Bonds made and acknowledged as directed by the Stanutes.

Sectionate. Deceit in Merchandize.

Stiver. See Guilder.

Strop Of Beer in Flanders 2 Quarts ( Tof their Barrel) in Holland it is 23 Quarts, at Lubeck 7 Pints English, but the Stoop of Wine in Holland is 2 Quarts 3 Pints English Meafare.

Storage. Ware-house Room. Subbaftation. | Selling Confifcare Goods under a Spear.

Subscribe.] To underwrite 2ny Instrument or Writings

Sultana. A Tarkish piece of Gold, in Value 80 Aipers or s. Sterling; in which Accounts are kept in Tripoly, and Tunis in Burbary, but at Aleppo in is 8s. Sterling, or 80 Medine, 100 Alpere is a Sultana at Moce, the Scale to Mesca the Metropolis of Arabia.

Supercarge ] One employed by the Owners of a Ship, or Merchants, to go a Voyage to overfee the Cargo, and to

- Stape.] Of Corn about Le- best Advantage of the More chants, for which Service he is allowed great Commission, because the Trust reposed in him is very considerable.

Surcharge. Charge upon Charge, or the Charge in any thing which is over and above that which is just and night.

Suttle marght. She Chap. 9. Sect. 2.

Swelver. A small piece of German Coin about a Pence farthing Sterling.

Tackle.] (Of a Ship) Kopes, &c.

Take.] In some parts of East India to Mels (or 201. Sterling). at Tapan 4 s. 6 d. and in Sumatra 16 s. Sterling.

Tallens. (In Weight) 62 fb. Troy.

. Tally.]. A clost pices of Wood given by the Officers of the Exchequer to fuch as pay-Money thereinto, upon Loans,

άv.. Tally-Man.] One that falls all manner of Honshold Goods, Linnen, Woollen, &c. to be paid by so much a Week, in. vehich method he usually extorts a prodigious advantage from the Buyer.

Tari. In Sicily and thereabout the Sterling where Acdispose of it out and in to the scounts are kept in Ounces. Tax

ti, and Ginne, we Grains is Thri, and 30 Tari 1 Ounce, and in some places, Accounts are kept in Florins and Tari, Tari is their Florin.

Tare and Trest See G. 9. \$ 2. Tarpaulin.] A tarred Canvas laid on the Deck of a Ship to keep the Weather out.

Tanany.] A Mediure in Jagan, in length 1th Yards En-

glifh.

receive the Money in the Exchequer.

Tical ] Of Gold in China, in Value 2 k 16 s. 3 d. Sterling.

Timber.] Of Furrs 40 Skins.
Timpb.] Money in Poland, a-

bout 7 pence Sterling.

Tol.] A Silk Weight at Surat, is a Pyce (or 12 Mais) equal to is Drams is Averdupois, or 6d. Weight 16 Grains Troy; they have also another Tol whereby their Becom Stone, rich Perfumes and Gold and Silver are weigh'd, which is 7 penny Weight and 16 Grains Troy.

Toman.] A piece of Gold at Ormus in the Persian Gulf, in Value 2 L 6 s. 8 d. Sterling.

Transfer.] A Custom-house

Warrant to let pass.

Transport. To carry over Sea.

Trillion. Or thrice Millions, flewing that the Word Millions is thrice mentioned in Numeration, and is as much as to fay Millions of Millions of Millions.

Troised Culton for weighing World.

Tible.] Of Tea about 60 lb; Camphire 56 to 86 lb; Vermilllon 3 to 4 C.

Tun.] Of Timber cat to a

Square to folid Feet.

Timage.] Custom granted the King of England for Liquids' Imported or Exported: See the 1st granted 42 Edw. 2.

Tydes-men.] Officers attending the Ships until the Cultons

is paid.

#### V

Vertule.] Of Corn in Planders 2 Bushels, # Pecks English Corn-Measure.

Villein.] (Fleece of Wooll) that which is shorn from a stabbed Sheep.

Vintage: ] Grape gathering.
Ullage.] (Of a Cask, &c.)
what the same wants of being full.

Uncustom'd Goods.] Those that have not paid Custom, vide 14. Car. 2. c. 11. Rev. 6. W. M. c.1.

Usance.] Is here in England for the most part reckoned a Calendar Month, as from January the 10th; double Usance two such Months, &c. Vide Chap. 11. Sect. 1.

#### W

Waga.] A Weight, or 256 fb.
Water-born.

Water-barn.] Just a-float.

Weigh.] Of Glass = 60 Bunches; of Salt or Corn 40 Bu-

Werp.] A Corn Measure at Embden in the Circle of West-phalia 54 Pecks English.

Wharfage.] The Fee paid for Lading or Unlading Goods at

a Wharf.

Wooll-drivers.] Those that buy Wool of Sheep-masters and carry it on Horseback to Sell.

Wooll-winders. They that are fworn truly to bundle up Fleeces between the Buyer and Seller.

Wreck ] The perishing of a Ship, and every Person in it; what part is cast ashore belongs to the King, but if any Creature in the Ship escape, the Goods are still the Owners, if claimed within a 12: Month and a Day.

Yard (Of a Ship) The Tim-

ber cross the Mast; at which the Sails hang; and the Mainyard is & of the Keels length.

Yard. (English Measure) is Paris 176 of an Ell; at Rotterdem 1110 Ell; Copenbagon, as also at Stockbolm, Leipfieh, Hamburgh, Norremburgh, Collen, Labeck and Dantzick I Ell, and 15; at Brassels and Asquery 173 Ells. at Madrid and Toledo 1 100 Vares. at Vienna 1 700 Ells for Linnen, and for Cloth and Silks 1 12 Ells, Venice 1 16 Brace, Rome 700 of a Cane, Genoa 24 Palms, Legborn and Florence 1 to Brace, Lisbon 180 of a Vare in Sicily 100 of a Cane, Madera Illes ros of a Brace.

Zacca.] The Mint at Venices
Zachine.] A Gold Coin worth
about 7 s. 6 d. Sterling.

Zelor.] Money at Confiantinople, about 2 s. 6 d. Storling.

CHAP.

## CHAP. XV.

# Contains the Form of such Writings as are commonly used by Merchants and Traders.

Have not inserted the following Presidents with design that the Merchant, &c. should be at the Trouble of Writing them over upon occasion, which would be too tedious, but chiefly that young Merchants and Traders by reading them, may be well acquainted with the Nature thereof, and may thereby know how to fill up Blank Bills of Lading, Policies of Insurance, Charter Parties, &c. tho' there are some others of which there are no Blanks ready Printed, as Bills of Exchange, Notes, Invoyces, Letters of Credit, Letters of License, &c. which they that have Occasion must write over, and for their Servicea Form or Method may not be useless, especially to such as have not seen much of the Affairs of the World; and for these Reasons I have in Alphabetical Order, given an Example of all the most material Writing subservient to Trade that I could think of.

# S. 1. An Arbitration Bond, with a Condition thereto annex'd.

This Instrument is very useful among Merchants, who upon any slight occasion do not usually go to Law, but refer the Matter to be decided by two knowing Men; or if they two cannot agree, it is often determined by an Umpire, or one Man, chosen indifferently by both Parties; to stand to whose Award, final Determination, or Umpirage, the disagreeing Parties commonly give each other mutual Bonds.

### In this Form.

Note, That Overint universi per prasentes [me Benjaminum Bidthe words vafare de London in Com. Middlesex, Mercator.] Teriable, I have neri & sirmiter Obligari [Willielmo Wellmeant de London included in a predic' Mercator,] in Centum Libris bona & legalis moneta Parathesis, between 2 Cro-Angliae solvend' eidem [Willielmo Wellmeant] aut suo certo chets, thus [] Atornat. Executor. vel Administrator suis: Ad quam quiK k

dem solutionem bene & fideliter faciend. Obligo me, Hæredes, Executores & Administratores mos sirmiter per præsentes sigillo meo sigillat. dat. [primo die Mais Anno Regni Dom. nost Wilhielmi Tertii, Dei gratia Angliæ, Scotia, Franciæ & Hiberniæ Regis, sidei Defensoris, &c. Nono Annoque Dom. 1704.]

The Condition of this Obligation is luch. That if the above bounden [Benjamin Bidfare of London Merchant, his Heirs, Executors, and Administrators for his and their Parts and Behalfs, do in all things well and truly stand to, obey, abide by, perform, fulfill, and keep the Award, Order, Arbitrament, final End and Determination of (Anthony Aimwell and Michael Makepeace of London, Merchants] Arbitrators indifferently named, elected and chosen, as well on the part and behalf of the abovebounden [Benjamin Bidfare] as of the abovenamed [William Wellmeant ] to arbitrate, award, order, judge and determine of and concerning all, and all manner of Action and Actions. Cause and Causes of Actions, Suits, Bills, Bonds, Specialties, Judgments, Executions, Extents, Quarrels, Controversies, Trespasses, Damages and Demands whatsoever, at any time or times heretofore had, made, moved, brought, commenced, fued, prosecuted, done, suffered, committed or depending by or between the faid Parties, fo as the faid Award be made fand given up in Writing under their Hands and Seals ready to be delivered to the said Parties] on or before the [Fourth Day of June next ensuing the Date abovementioned.] But if the faid Arbitrators do not make fuch their Award of and concerning the Premises by the time aforesaid; That then, if the faid [Benjamin Bidfare] his Heirs, Executors and Administrators. for his and their part and behalf, do in all things well and truly stand to, obey, abide, perform, fulfill and keep the Award, Order, Arbitrament, Umpirage, Final End and Determination of [Ferdinando Finishall of London Esquire, Umpire indifferently chosen] between the said Parties of and concerning the Premises, so as the said Umpire do make his Award or Umpirage of and concerning the Premises, and deliver the fame in Writing under his Hand and Seal to the faid Parties on or before the [fourteenth Day of June next ensuing the Date above-. Presidents of Merchants Writings. 251 above said.] Then this Obligation to be void, or else to remain in full Force, Strength and Virtue.

Scaled and Delivered (being stamp'd according to A& of Parliament) in the presence of A. B. Benjamin Bidsare.

But note, that if there is to be no Umpire you must omit the latter End, from [But if the said Arbitrators, &c.]

# S. 2. A Bill of Debt.

know all Open by these Presents, That I Nicholas Needemof London, Draper, do owe and am indebted unto Christopher Creditmuch of London, Merchant, the Sum of Eight hundred fifty swe pounds of lawful English Coin, which said Sum I promise to pay unto the said Christopher Creditmuch, his Executors, Administrators or Assigns, on or before the Twenty Fourth Day of June next ensuing the Date hereof. Witness my Hand and Seal the First Day of January, 1706.

Scaled and Delivered in the presence of Barthol. Bookall, Peter Pettycash,

Nich. Needem.

# But if the Bill of Debt is for Money borrowed it may runthus:

Eceived and Borrowed of Christopher Creditmuch of London Merchant, Eight hundred fifty two Pounds, which I do hereby promise to pay at Demand; Witness my Hand, June 1. 1704.

852600:00

Nich. Needem.

# S. A. An Inland Bill of Exchange.

#### Norwich, June 1. 1704.

T four Days sight pay unto Mr. Miles Moneylove, or his Order, One hundred thirty two pounds, value received of Edmund Easie, and place it to Account as per Advice of To Mr. Paul Punctual Your bumble Servant at the Ship in Grace-David Draw-well,

S. A. A Foreign Bill.

London. April 10, 1706. for 1000 ps. 8, at 53 d. Steel. per ps. 1.

T Three Usance pay this my first Bill of Exchange unto Mr. Peter Petersry, or his Order, One thousand pieces of Eight, Mexico Exchange, at 53 pence & Sterling per piece of Eight, for the Value receiv'd of Andreas Amantretia, and pass it to Account, as per Advice of

To Mr. Peter Paygood Merchant in Leghorn.

Church street, London.

Your Real Priend.

(Vide Ch. 11. S. 1.)

Edm. English

# S. 5. The Form of a Bill of Lading.

(Note, that the Words between [] are Blanks filled up.)

C'Hipped by the Grace of God in good order and well conditioned by [Francis Fraightwell of London, Merchant. and Company] in and upon the good Ship called [the Straights-Merchant of Dover] whereof is Master under God, for this present Voyage, [Samuel Sailtrue of London] Mariner, and now ri-

ding at Anchor [in the Port of London,] and by God's Grace bound for Legborn in Italy; to say, One Bale of Woollen Cloth, one Cask of Tinn in Blocks, and one Cask of Refined Sugar; Contents, &c. as per Invoyce] being marked and numbered as in the Margent, and are to be delivered in the like good order and well conditioned at the aforefaid Port of [Legborn] (the Danger of the Sea only

excepted) unto Mr. David Dealfair Merchant there] or to his Assigns, he or they paying Fraight for the said Goods, [two

# S. 7. The Form of a Bill of Entry at the Custom-bouse.

June 1. 1704.

N the Streights-Morehant, Sam. Sailtrue for Leghorn.

Francis Fraightwell.

Nine short Cloths.
Fourteen Hundred Three Quarters of Tim.
Six Hundred One Quarter and Twenty four Pound
Double Refined Sugar.

# §. 8. A Form of a Bill of Sale.

The most usual Bill of Sale among Traders is, when a Perfon wanting a Sum of Money, deposits Goods as a Security to the Lender, which Goods, in Case the Sum borrowed is not repaid with Interest at a Time presix'd, are forseited to the Creditor.

#### It runs thus:

Know all Persons whom it may Concern, That I Laxarm · Lackcash of Norwich in the County of Norfolk Goldsmith, for and in Confideration of Fifty Pounds of Lawful Money of England to me in Hand, paid by Dives Doubledun of London Esquire, the Receipt whereof I do hereby acknowledge, have bargain'd. fold and delivered, and by these presents, according to the due Form of Law, do Bargain, Sell, and Deliver unto the said Dives Doubledun four Caracts of Oriental Pearl, Nine Grains of brait Diamonds, one Silver Tea Pot weight 20 Ounces, one Silver Salver weight 10 Ounces, two Sets of Silver Casters weight 30 Ounces, and ten Cornelian Kings, Sealed up by Consent with my Seal, To bave and to bold the said bargained Premises unto the said Dives Doubledun, his Executors Administrators, and Assigns for ever. And I the said Lazarus Lackcash, for my felf, my Executors and Administrators, the said bargain'd Premises unto the said Dives Doubledun, his Executors, Adminifirators and Assigns against all Persons, shall and will warrant and for ever defend by these Presents, Provided nevertheless, That

256 Prefidents of Merchants Wzitings.

That if I the said Lazarus Lackcash, my Executors, Administrators and Assigns, or any of us, do and shall well and truly pay or cause to be paid unto the said Dives Doubledun, his Executors, Administrators or Assigns, the Sum of Fifty Pounds Principal, and thirty Shillings, half a Years Interest thereof, on the sirk Day of November next ensuing the Date bareof, for Redemption of the said bargained Premises; Then this present Bill of Sale shall be void, or else to remain in sull force: In Wishels whereof I have hereunto set my Hand and Seal the first Day of May, Anno Dom. 1706. And in the Fifth Year of the Reign of our Sovereign Lady Ann Queen of England.

Staled and Delivered, &c.

A, B. C, D. Lazarus Lackcasb.

# S. 9. A Form of a Charter-party of Affraightment.

What a Charter party is you will find in the Dictionary and elsewhere, which will also appear very plain in this following Form, to be given to the Merchant by the Master, and the like by the Master to the Merchant mutually Sign'd, &c.

HIS Charter-party of Affraightment indented, made and agreed upon the Twenty first Day of April, An Dom. 1706. and in the Fifth Year of the Reign of our Sovereign Lady Ann Queen of England, &c. Between Herbert Haulaway of Deptford Mariner, Mafter (under God) of the Good Ship or Veffel called the Fortunate, of the Burthen of Three Hundred Tuns or thereabouts, now riding at Anchor in the Port of Plymouth of the one part, and Giles Growrich of Portsmouth in the County of Hants, Merchant, of the other part, Witneffeth, That the said Master hath granted and lett to Freight the said Vessel unto the said Merchant; and the said Merchant hath hired the said Vesfel for a Voyage with her to be made in manner and form following; That is to say, The said Herbert Haulaway for himself, his Executors and Administrators doth Covenant. Promise and Grant to and with the said Giles Growrich, his Executors and Administrators by these Presents, That the said Vessel with the first fair Wind that God shall send after the Twentieth Day of May next ensuing the Date above, shall depart from the said Port of Plymouth with such lawful Goods and Merchandizes as

it shall please the said Giles Growrich or his Assigns in the mean time to Lade on board her: And that it shall be lawful to and for the said Giles Growrich, his Factors and Assigns in the mean time to Lade aboard her all such lawful Goods and Merchandizes as he or they shall think fit, which she may reasonably carry over and above her Victuals, Tackle and Apparel. And that the faid Vessel shall, by God's Grace, directly, as Wind and Weather will serve, Sail unto the Port or Harbour of Aleppo in Turky, and there deliver unto the said Giles Growrich. his Executors, Administrators, Factors and Assigns, all such Goods and Merchandizes as shall be Laden on Board of her by the said Giles Growrich, his Executors, Administrators, Factors or Affigns, dry and well condition'd, Danger of the Sea, Fire, Enemies, and Embargo of Princes only excepted. And after her clearing and right discharge of such Goods as she shall receive into her within the faid Port of Plymouth, shall receive in the faid Port of Aleppo her full Lading in such Lawful Goods and Merchandizes as it shall please the said Giles Growrich, his Executors, Administrators, Factors or Assigns, to Lade or cause to be Laden aboard her; and after such her full Lading at the Port of Aleppo aforesaid, shall directly sail as Wind and Weather will permit to the said Port or Harbour of Plymouth aforesaid, and there deliver to the said Giles Growrich, his Executors, Administrators, Factors or Assigns, within the space of ten Working Days hereafter mentioned, the said Goods and Merchandizes so received into her at Aleppo aforesaid, dry and well conditioned, and make a right Discharge and End of the faid Voyage, the Danger of the Sea, Fire, Enemies, and Embargo of Princes and Rulers only excepted: And that the faid Vessel, after her Arrival at Aleppo aforesaid, shall stay at Anchor there for her Unlading and Relading fifty Working Days, and shall stay at Anchor at the said Port of Plymouth, after her Return again and Arrival there from Aleppo aforefuld, ten Working Days, for the Delivery of the said Goods so to be Laden aboard her at Aleppo aforesaid; and the said Giles Growrich, for himself, his Executors and Administrators, doth farther Covenant, Promise, and Grant to and with the said Herbert Haulaway, his Executors and Administrators, and also warrant by these Presents, the said Vessel at her Departure from the said Port of Plymouth, and during the said Voyage, shall be strong and flaunch, and sufficiently Victualled, Tackled and Apparelled

relled; and furnished with Masts, Sails, Sail-Yards, Anchors, Cables, Ropes, Cords, Tackle, Apparel, Boat, and all other Furniture whatfoever requisite or needful for such a Vessel for . fuch a Voyage. And the faid Giles Growrich, for himself, his Executors and Administrators, doth Covenant and Grant to and with the said Herbert Haulaway, his Executors and Administrators, not only to Unlade and Relade and dispatch away the said Vessel at and from Aleppo and Plymouth aforesaid, within the time and times before therefore limited and agreed upon, but also for the Freight or Hire of the said Ship or Vessel for all the faid Voyage, viz. from Blymouth to Alepso and from thence to Plymeuth, well and truly pay or cause to be paid unto the said Herbert Haulaway, his Executors, Administrators or Assigns, the Sum of Three hundred and fifty Pounds of lawful English Coin in manner and form following, that is to fay, The Sum of 58 pounds at the faid Port of Aleppo within twenty. Days next after the Arrival of the said Ship or Vessel and Delivery of the said Goods well conditioned at Aleppe aforesaid, and two hundred ninety two pounds more, Residue of the said three hundred and fifty pounds at Plymouth aforesaid, within ten Working Days after the return again and arrival of the faid Ship or Vessel from Aleppo to Plymouth, and the Delivery of the faid Goods to be received into her at Aleppo aforesaid, unto the said Giles Growrich, his Executors, Administrators, Factors or Assigns at Plymouth aforesaid, well conditioned as aforesaid; together with Primage and Average, according to the Use and Custom of Merchants. And the said Giles Growrich, for himself, his Heirs, Executors, and Administrators, doth Covenant and Grant to and with the said Herbert Haulaway, his Executors and Administrators by these Presents, that in Case the said Vessel shall through the default of the said Giles Growrich, his Factors or Assigns, stay for her Unlading or Relading at Alepso aforesaid, or for her Lading at Plymouth aforesaid, before her Departure from thence: or for her Unlading at Plymouth aforesaid, and after her return and arrival from Aleppo aforesaid to Plymouth aforesaid, after the several Days therefore abovementioned. That then the faid Giles. Growrich, his Executors or Administrators shall and will pay or cause to be paid unto the said Herbert Hadaway, his Executors or Administrators the Sum of Thirty Shillings, Sterling for every Working Day that the said Vessel shall either stay as Aleppo for her Unlading and Relading, or at Phymouth aforefaid, for

for her Lading or Unlading after the Days above limited and agreed upon; and to the performance of all and fingular the Covenants and Agreements abovementioned, which on the part and behalf of the said Herbert Hanlaway, his Executors or Administrators, are to be performed in all things as abovesaid. the said Herbert Haulaway bindeth himself, his Executors and Administrators, and especially the Ship or Vessel aforesaid, with her Freight, unto the said Giles Growrich, his Executors and Administrators in the Sum or Penalty of Four Hundred Pounds of Lawful Money of England, well and truly to be paid by these Presents; and likewise for the Performance of all and singular the Covenants and Agreements abovementioned, which on the part and behalf of the faid Giles Growrich, his Executors, Administrators, are and ought to be performed in all things as are above recited, the said Giles Growrich bindern himself, his Executors and Administrators and Goods, unto the said Herbert Haulaway, his Executors and Administrators, in the Sum or Penalty of Four Hundred Pounds of like Money of England, well and truly to be paid by these Presents. In Witness whereof, the Parties first abovenamed to these Charter-parties Indented, interchangeably have fet their Hands and Seals, the Day and Year first above-written.

Sealed and Delivered, &c.

Herbert Haulaway.



### §. 10. The Form of a General Release.

of London Merchant, have Remised, Released, and for ever quit Claim, and by these Presents do for me, my Heirs, Executors and Administrators, Remise, Release, and for ever quit Claim unto Lewis Lightpocket, Citizen and Larimer of London, his Heirs, Executors and Administrators, all and all manner of Actions, Cause and Causes of Action, Suits, Bills, Bonds, Writings, Obligations, Debrs, Dues, Duties, Accounts, Sum and Sums of Money, Judgments, Executions, Extents, Quarrels, Controversies, Trespasses, Damages and Demands whatsoever, both in Law and Equity, or otherwise howsoever, which against the said Lewis Lightpocket I ever had, now have,

260 Presidents of Merchants Writings.

and which I, my Heirs, Executors and Administrators shall or may have, claim, challenge or demand, for or by reason or means of any Matter, Cause or Thing, from the Beginning of the World to the Day of the Date of these Presents: In Witness whereof I have hereunto set my Hand and Seal the Tenth Day of April, Anno Dom. 1706.

Sealed and Delivered in the Presence of Simon Saywell, Lawr, Lackwitt.

Henry Haveall.

# §. 11. The Form of an Invoyce or Factory.

Nvoyce (or Factory) of 6 Hogsheads of Tobacco, 12 Barrels of Orgall, 5 Baggs of Shomack, 3 Chests of Sugar, and 3 Bales of Woollen-Cloth, Shipt on Board the Streights-Merchant, Theophilus Throughpaste Master, for the proper Account and Risque of Marmaduke Maridani, Merchant in Leghorn, and consign'd to himself, being mark'd and number'd as per Margent; Contents, Costs and Charges, as follows.

# Presidents of Merchants Writings.

```
Best bright Tobacco 6 Hogsheads, viz.
                                                  C. Q. 1b.
         Č. L. 1b.
                      C. Q. 1b.
No. 1 4t. 2:3:07, Tare 0:2:14 No. 4 4:1:27 Tare 0:3:04
2 3:1:10, Tare 0:2:20 5 2:2:20 Tare 0:2:10
3 3:3:00, Tare 0:2:00 6 5:2:10 Tare 0:3:12
                       1:3:06 Tare 12:3:01 Groß 2:0:26 Tare.
  Groß 9:3:17,
                                                  1:3:06 Tare.
  Gros 12: 3:01
                                                   4:0:04 Tot. Tare.
       22:2:18 Total Groß.
         4:0:04 Tare
       18: 2:14 Suttle, 2086 lb.
                 Tret, ..80 lb.
                 Nett, 2006 lb. at 71 d. per pound - 62: 13:09
  Orchal, viz.
No. 7. to 18 41. 12 Barrels at 14 s. per Barrel
                                              <del>---</del> 08: 08:∞
  Shomack & Baggs, viz.
Nº. 19 41. Nett. C. 2 : 2 : 07. Nº. 22 3 : 0 : 06
                                23 2 : 1 : 20
                  2:0:24
     21
                                     5:1:26
          In all 12:0:18 at 12 s. per Hundred 07:05:11
  Sugar Double Refin'd 3 Chests, viz.
Nº 24 381 lb.
   25 505 lb.
26 326 lb.
       1212 Nett at 18d. per pound - 90:18:00
  Cloth 3 Bales, viz.
No. 27, 28, 29 qt. each (with Wrappers)10 short ?
         Cloths at 12 L per Cloth
                                                       <20:04:08
                Charges, viz-
                                                To Custom of all-
             Ditto of 3 Wrappers for the Cloth-000: 07:00
               Brokage at 1 per Cent.
                                               001 ; 00 : 00
             . Storage -
                                                      -000 : 10 : 06-
               Cartage and Porterage -
                                                      588 : 13 : 10.
                      To my Commission at 21 per Cent. -014: 14: 04
 Law Dee, London May 4. 1706. Errors excepted per Timothy
Trusty.
                                                              5.12.
```

# S. 12. The Form of a Letter of Credit.

The Forms of Letters of Credit may be various and yet walled and authentick, one of which may serve, if it be of this Nature, to be altered according to the Circumstances of the Correspondents. (Vide the Dictionary) Example.

SIR

THE last of Yours which I received, was dated the 24 ultimo, by which I understand you have mine of the 20 Ditto, and I hope by this time you have accomplished the Affair therein mentioned; as to the Purport of Yours, assure your self, At shall be punctually observed, of which more per next; in the interim I intreat you to furnish the Bearer hereof, Mr. Matthew Meanwell, with the Sum of Fifty Six Pounds Sterling, at such time as he shall require the same, and place it to my Account, for which this my Letter of Credit, together with his Receipt, shall be your sufficient Voucher and Warrant, giving, supon Payment) a Line or two of Advice to

To Mr. Nicholas Neversail

Merchant in Hull.

London, May 1. 1706.

Samuel Standfast.

# S. 13. The Form of a Letter of License.

O all People to whom this present Writing shall come, We whose Names are underwritten, Creditors of Oliver Overshot of London Haberdasher, send Greeting: Whereas the said Oliver Overshot at this present time doth stand indebted and justly oweth unto us, the said Creditors of him the said Oliver Overshot, divers and sundry Sums of Money, which by reason of many Debts (and some of them very great) that are likewise justly owing to him the said Oliver Overshot, and cannot be recovered without some time of Respite, he is very much disabled

at prefent to make payment unto his faid Creditors our whole and just Debt, as he seemeth willing and desirous: In consideration whereof he instantly desireth us, That we the said Creditors, and every of us, would be pleafed to give and grant unto him the faid Oliver Overshot, his Executors, Administrators or Assigns, such Liberty and Respite of Time for the payment and Satisfaction of our several Debts as he thinketh reasonable for the obtaining, getting and recovering of his said Debts; that is to fay, That we and every of us would be contons to take and accept of our whole Debts in the space of two full Years next after the Date hereof, to be divided into two equal parts, to be paid at two feveral Payments, in Manner and Form following, viz. The first Payment thereof to be made on the first Day of May next enfuing the Date hereof, which shall be in the Year of our Lord 1700. And the other Payment or Moiety, the Residue thereof, to be paid on the first Day of May, which shall be in the Year of our Lord 1706. in full Payment and Satisfaction of the said several Debts. And for the more full Performance of the said several Payments in such manner and form as is above limited and declared, according to the true meaning of these Presents, he the said Oliver Over-(hot shall or will at or before the Tenth Day of this Instant May, become bound unto us the Creditors respectively by one Obligation in due Form of Law to be made, including all and every the Payments in such fort as is above expressed, and the Penalty of every Obligation to be double the whole Sum, included in the Condition of the same, to be delivered to us, and every of us, our Executors or Assigns, at or before the said Tenth Day of May next enfuing the Date hereof: Know ye therefore, That we the faid Creditors whose Names are subscrib'd, and every of us for his own part, and for his Executors. Administrators and Assigns, for the Consideration abovementioned, do by these Presents willingly consent, promise, covenant and agree to and with the faid Oliver Overshot, his Executors, Administrators and Affigns, by these Presents, that we the faid Creditors, and every of us, our Executors, Administrators and Assigns, shall and will accept of the said. Oliver Qverbot, his Executors, Administrators and Affigus, all and every the faid Debts and Sums of Money by the faid Oliver Overflot unto us and every of us owing and payable upon such Obligations,

in London. And lowe the Affurors see somethed, and do here, by promise and bind our selves, each one for his own part, one Heirs. Executors and Goods to the Affureds, their Executors, Administrators and Assigns, for the true performance of the Premises, confessing our selves paid the Combideration due unou us for this, Assurance by the said William Wife, after the Race of Eight Pounds Sterling, per Cent. warranted to depart with Convoy.

In Witness thereof we the Assurors have subscribed our Names and Sums Induced in London, Dated the First Day of May, 1706.

\*Memorandum, The Assurors do hereby: Covenant, Promise and Oblige themselves, their Heirs, Executors and Goods, in Case of Loss happening (which God forbid) to satisfy and pay their several Sums of Money herein assured upon the Abatement only of 10 Pounds per Cent. and no more, Provided always that they pay their respective Sums of Money by them assured according to Subscription, within one Month after Notice thereof, otherwise no Abatement whatsoever to be made, but to pay their full Sums according to each Man's Subscription, any Use or Custom to the contrary notwithstanding. Written the Day abovesaid.

I. (A. B.) am contented with this Infurance for One, hundred and fifty pounds; Witness my Hand, Lon-Sigo den, Anno Dom. 1706.

I (C. D.) am contented with this Infurance for One hundred Pounds; Witness my Hand, London, Annual Dom. 1706.

I (E. F.) am contented with this Infurance for One hundred and fifty pounds; Witnessery Hand, Londow, Anno Dom. 1706.

S. 16.

# S. 16. Protest of a Poreign Bill.

NOW all Persons whom this present Writing may concern, That the Second Day of April, 1706. at the Request of Mr. Richard Rich of London Merchant, I Isaac Sharp Publick Notary, Sworn and admitted by Authority of her Sacred Majesty Ann Queen of England, &c. did go to the Dwelling-- House of Mr. Paul Puttoff, upon whom the abovenamed Bill of Exchange is drawn, and shewed the Original unto the said Mr. Paul Puttoff, demanding his Acceptance of the same. who answered me, he would not accept the said Bill for Reafons best known to himself, of which he should inform the Drawer Mr. Frederick Farfetch. Wherefore I the faid Notary did Protest, and by these Presents do Protest as Well against the said Frederick Farfetch, as against the said Paul Puttoff, as also against all other Persons, Endorsers, and others therein concerned, for all Changes, Rechanges, Charges, Damages. and Interest whatsoever. In presence of A. B. and C. D. called for Witnesses to this present Act done in my Office in London the Day and Year abovesaid.

Isaac Sharp, Publick Notary.

Note, That this Protest is always inserted or written under a Copy of the Bill Vide Chap. 11. §. 1.

# . 4. 17. The Forms of Receipts.

If the Receipt be giving in a Book, you need not mention the Man's Name of whom you receive, because that is always imply'd, the Book being his: Thus (if the Receipt be for Goods formerly fold.)

R Eceiv'd April the 1st. 1706. Forty eight Pounds?
Seven Shillings and Four Pence, in full Pay48:07:04

Daniel Dunwell.

If a Receipt be given upon some other Account, to one that keeps no Book for Receipts, by one for Account of another, it will run thus;

June 1. 1706.

Receiv'd of Mr. Andrew Allpaid, by Order and for Account of Mr. Humphrey Hoardnone, One hundred Pound; I say receiv'd as aforesaid per Tho. Trusty.

# A Rent-Gatherer's Receipt.

# A Receipt on the Backfide of a Bill of Exchange.

Admit Tertullian Trevardo receives in Leghorn the Contents of the Bill mentioned in the 4th Sect. of this Chapter, Mr. Peter Peterani first writes his Name on the Backside, which is his Order, leaving room to write a Receipt over it, then the Receipt on the Backside stands thus; June 24th, 1706. Received the full Contents?

within mentioned, being one thousand Pieces of Eight

# Peter Peterani. Witness, Tertul. Trevardo.

S. 18. The Form of the Condition of a Broker's Bond to the Lord Mayor and Court of Aldermen of London, according to 8 and 9 W.3.

HE Condition of this Obligation is such, That whereas Ben. Fox is sworn and admitted a Broker, pursuant to a Statute in the behalf lately made. Now therefore if the said Ben. Fox do and shall well and truly Use, Execute and Perform the Office and Employment of a Broker between Party and Party, without Fraud, Covin, or any corrupt or crasty Devices, according to the Purport, true Intent and Meaning of the Statute in that Case lately made and provided; then this Obligation to be void, or else to remain in full Force and Virtue.

# S. 19. The Form of an Umpirage.

The Umpire chosen as mentioned in Sect the 1st of this Chapter making his Umpirage, it will stand thus.

To all People to whom this present Writing shall come, I Ferdinando Finishall of London, Esquire, Umpire indisserently chosen by Benjamin Bidfare and William Wellmeant of London, Merchants, having deliberately heard and understood the Griefs, Allegations and Proofs of both the said Parties, and willingly, as much as in me lieth, to set the said Parties at Unity and good Accord, do by these Presents Arbitrate, Award, Order, Deem, Decree and Judge, That the said Benjamin Bidfare, his Executors and Assigns, shall well and truly pay or cause to be paid unto the said William Wellmeant, his Executors, Admi-

Administrators or Assigns, the full Sum of Thirty five Pounds of lawful Money of England, on the Twenty ninth Day of Sept. 1697. and that upon Payment thereof the faid B. Bidfire and W. Wellmeant shall Soal, Subscribe, and as their se vera Acts and Deeds deliver each to the other a general Release in Writing of all Matters, Actions, Suits, Causes of Actions, Bonds, Bills, Covenants, Controverses and Demands whatfoever, which either of them hath, may, might, or in any wife ought to have of and against each the other of them by reason aforelaid, or means of any Matter, Caule or Thing whatfoever, from the Beginning of the World to the first Day of May now last past, and in the Tenth Year of the Reign of our Sovereign Lord W. the Third King of England, &c. In Witness whereof I have hereunto fet my Hand and Seal the 14th Day of Feb. in the Year of our Lord God, 1700. (Vide Statute 9,10, W. 2.)

Sealed and Delivered in the presence of Bryan Butler. Cha. Cook.

Ferdinando Finisball. 🕤

FINIS.

# Advertisement. .

N Index to Interest: The most compleat Treatise of that Subject Extant. Written by the Author of this Book; and Sold by Chr. Coningsby and D. Midwinter aforefaid. Note, That there never was any Tables of Simple Interest that shewed the same for 365 Days at more than one Rate: Whereas this Book hath the Interest for 4 Rates, and each extends to 365 Days, and thence annually to 20 Years: And by these the Interest at 10 Rates is easily found. all in Vulgar Numbers. Besides, here you have a Table for the Valuation of Church or College Leases; also how to value 1, 2 and 3 Lives: And a Circle for finding the Days between any 2 in the Year, which are all New, and were never before Published. Very Usefull for Gentlemen, Merchants, &c. Note, the Tables are most easy to be understood, being done in plain Pounds, Shillings, Pence and Farthings.

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